

CATALOGUE
OF
MANUAL TRAINING
EQUIPMENTS AND TOOLS

FROM

ORR & LOCKETT

The "QUALITY" House



OVER 30 YEARS OLD
WE KNOW HOW

HARDWARE CO.

71-73 RANDOLPH STREET
NEAR NORTHWEST CORNER STATE STREET
CHICAGO

ESTABLISHED 1872

INCORPORATED 1890

OUR GREAT SUCCESS

In furnishing complete equipments to the large number of Schools we have supplied is due primarily to three reasons:

- 1.—The fine line we carry.
- 2.—The care we take in filling orders.
- 3.—The fact that we guarantee all supplies we furnish.

We have seen the need, from time to time, of various articles especially adapted for manual training work which could not be found among ordinary stocks, and have had these made up, with suggestions from teachers prominent in manual training, to fill this want.

OUR BENCHES ARE AN EXAMPLE OF THIS. We have a large variety of these, as shown on the following pages, some of which, we think, will be found to be adapted to any conditions which may arise.

OUR SPECIAL GOODS have not, however, brought about our large and constantly increasing business in this line unaided. The completeness of our regular line of tools and the high quality of the tools, together with our enterprise in finding new and useful articles, materially aid our specialties in bringing orders to us as a matter of course, and without competition.



We print below a very small and incomplete list of a few representative schools we have furnished, which shows that our activities are not confined to Chicago alone :: :: ::

Bozeman, Mont.
Bluffton, Ind.
Muskegon, Mich.
Salt Lake City, Utah.
Evanston, Ill.
River Forest, Ill.

Redlands, Cal.
Saginaw, E. S., Mich.
River Falls, Wis.
Wilmette, Ill.
Lake Forest, Ill.
Morgan Park, Ill.

A few of the many Chicago schools we have furnished

ARMOUR INSTITUTE.
FRANCIS PARKER SCHOOL.
PRINCETON-YALE SCHOOL.
ENGLISH HIGH & M. T. SCHOOL.
CHICAGO VACATION SCHOOL.

LEWIS INSTITUTE.
HARVARD SCHOOL.
UNIVERSITY ELEMENTARY SCHOOL.
CHICAGO LATIN SCHOOL.
CHICAGO MAN'L TRAIN'G SCHOOL.
CHICAGO NORMAL PRACTICE SCHOOL.

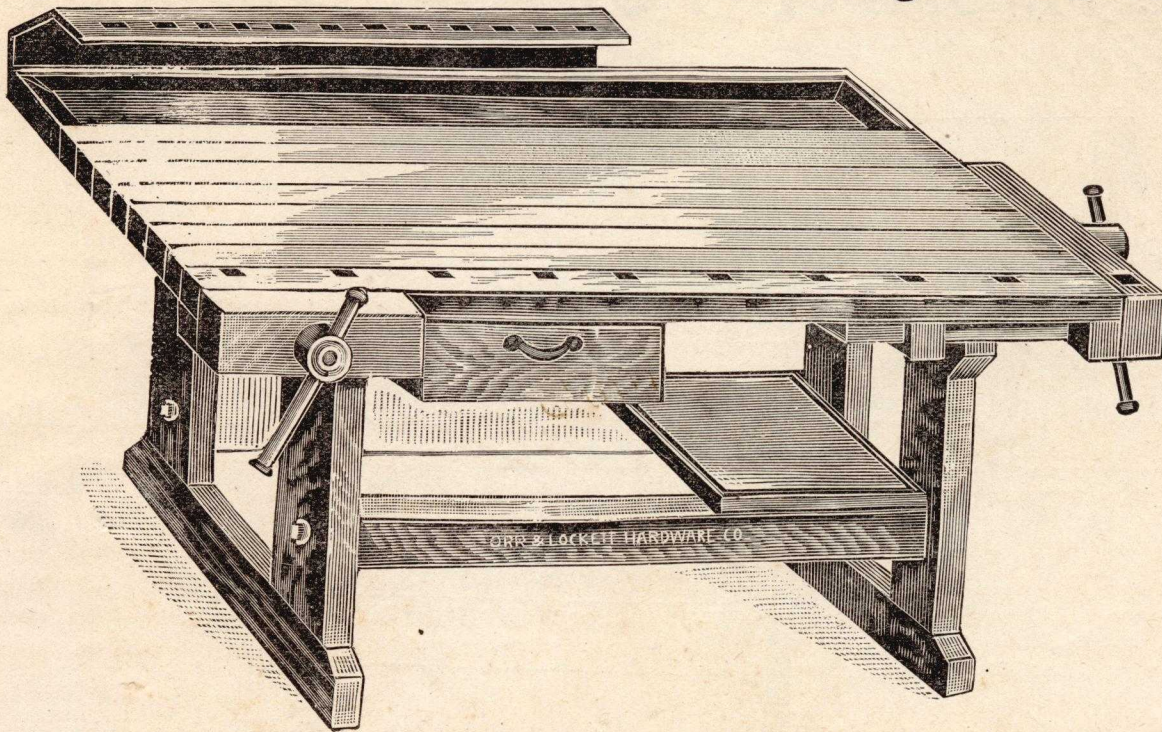


In these schools and many others our equipments have given satisfaction. Why not send your order to an experienced house and save inconvenience? When writing for estimates, etc., kindly address letter to the Manual Training Department of

Orr & Lockett Hardware Co.

71-73 Randolph Street,
CHICAGO

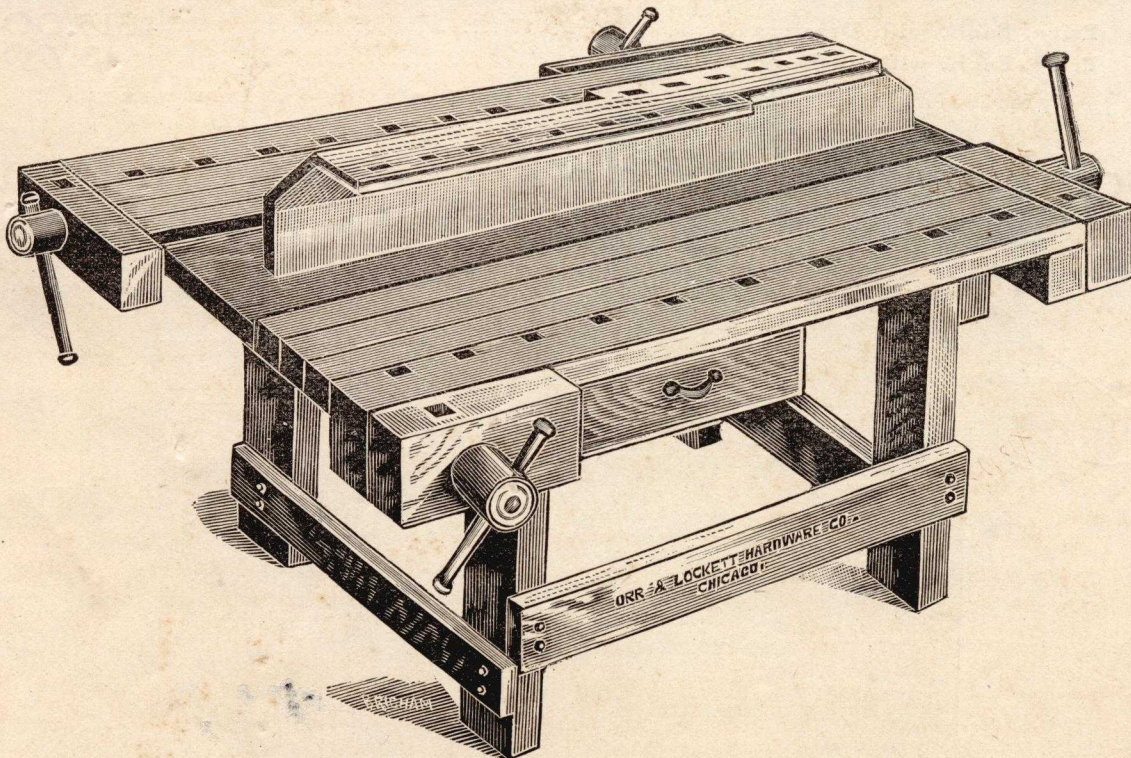
Orr & Lockett Hardware Co. Single Bench.



The above illustration shows our single Manual Training Bench. It is made of hard maple throughout. The top is made of 2½ in. strips glued together to prevent warping. Each bench has two vises, one regular and one tail vise. The working top of this bench measures 44 inches long, 20 inches wide, 31 inches high, extreme dimensions including bench screws, 50 inches long, 26 wide.

Price of single Bench with one drawer.....	Each	\$7.50
Price " " without drawer.....	Each	7.00

Orr & Lockett Hardware Co. Double Benches.

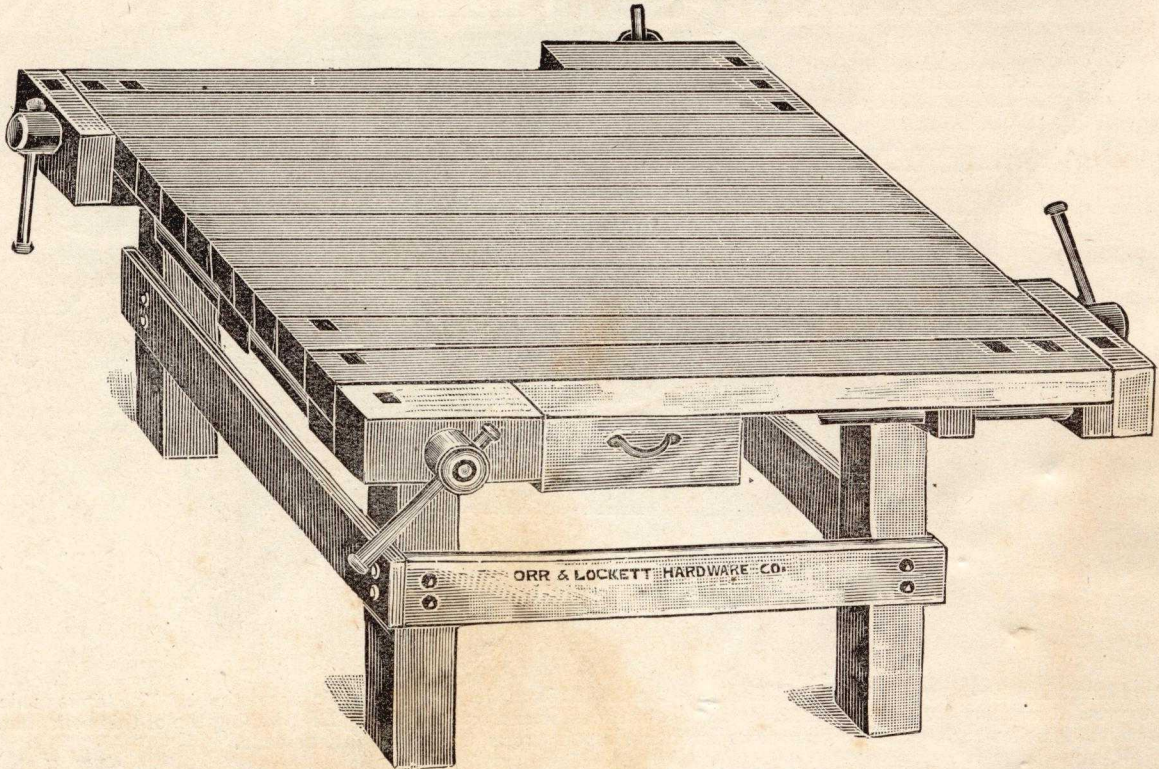


This bench is made for two pupils. It is made of hard maple throughout. The top is made of 2½ inch maple strips glued together to prevent any warping. Each bench has four wood vises as shown in cut, two regular and two tail vises. The working top of this bench measures 44 inches long, 38 inches wide. The extreme dimensions including bench screw are 50 inches long, 44 inches wide. The tool rack in this bench is 34 inches long. The legs are securely fastened together with lag screws. The height of this bench as regularly made is 31 inches, but we can make them any height.

Price each without drawers.....	\$13.50
Price each with 2 drawers to hold tools.....	15.00

We can also furnish this bench with two rapid acting iron vises when wanted.

R. M. SMITH FOUR-PUPIL BENCH

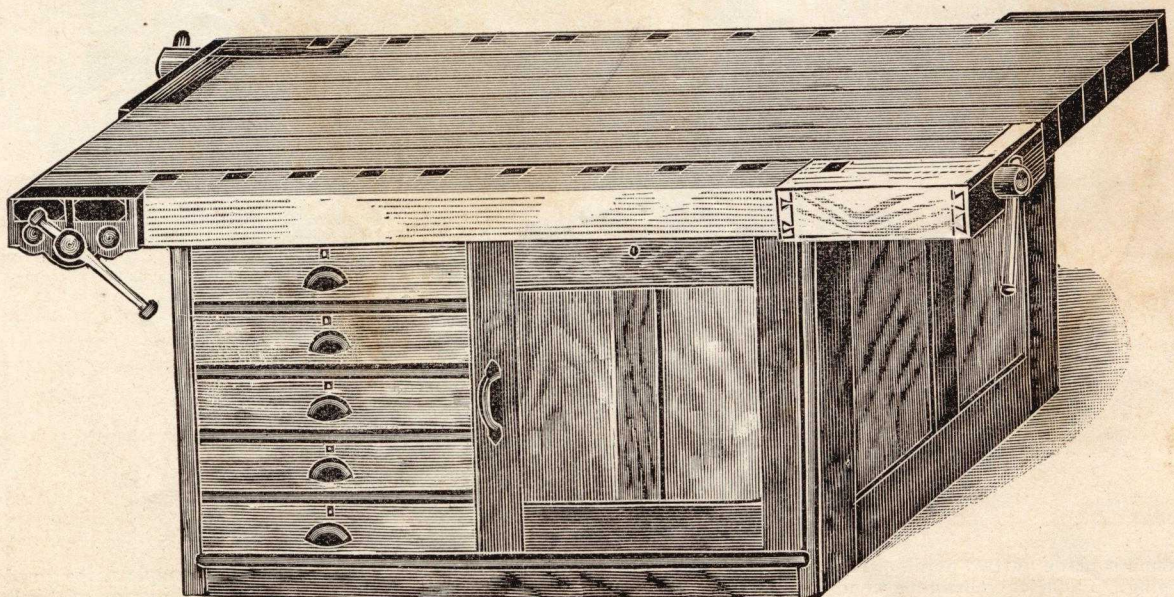


This bench is designed by Mr. R. M. Smith, and is intended for four pupils. Where economy of space is necessary, this is the best bench on the market. It is made of hard maple throughout. The top is made of 2½ inch strips glued together to prevent warping. This bench has four vises fitted with 2-inch maple screws. The working top of this bench is 48 inches square. extreme dimensions, 54x54 inches. The legs are made of 2x4 inch maple, securely fastened together with lag screws. Each bench has two drawers to hold tools.

Price, Each, with Drawers.....	\$15.00
Price, Each, without Drawers.....	13.50

We can also furnish this bench with four Rapid Acting Iron Vises in place of wood vises, when wanted.

Special Bench Made for Armour Institute



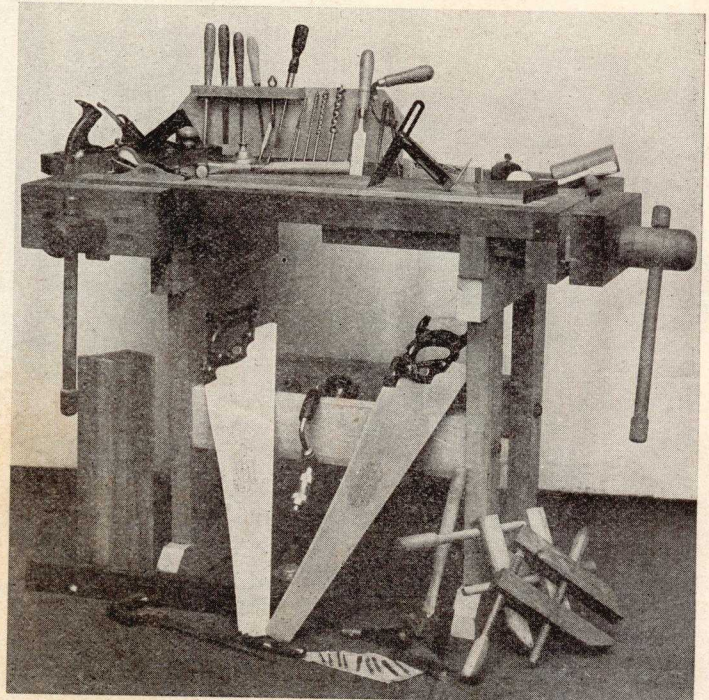
The above cut shows one of our Special Benches, which we are now making for the Armour Institute. The top of this bench is made of alternating strips of maple and cherry, glued together. This is a double bench for two pupils. The drawers contain the individual sets, such as planes, chisels, and all edge tools, and the cupboard (which is shown closed in cut) contains the general bench tools, such as braces, hammers, oil can, oil stone, etc. These benches are equipped with our latest Cook Rapid Acting Vises, shown on page 64 of this catalogue. The above shows one of the many different styles we are constantly making. When you are in the market for benches send us your drawings, and we will quote you our prices.

BENCHES WITH TOOLS

This bench is the same as our single bench listed on Page 1 of this catalogue.

Price of bench, complete, with set of tools listed below, **\$22.00**

- | | |
|--|---|
| 1 Bailey Block Plane. | 1 Ratchet Bit Brace. |
| 1 Bailey Jack Plane. | 4 Auger Bits, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 26-inch Rip Saw. | 2 Gimlet Bits. |
| 1 24-inch Panel Saw. | 1 Countersink. |
| 1 12-inch Compass Saw. | 1 5-inch Screw Driver. |
| 3 Chisels, $\frac{1}{4}$, $\frac{1}{2}$ and 1 inch. | 1 Plumb and Level. |
| 1 Gouge, $\frac{1}{2}$ inch. | 1 2-foot Rule. |
| 1 Nail Hammer. | 1 6-inch Try Square. |
| 1 Hatchet. | 1 8-inch T Bevel. |
| 1 Pair 6-inch Dividers. | 1 Oil Stone. |
| 1 Nail Set. | 1 Can Glue. |
| 1 Marking Gauge. | 1 Draw Knife. |
| 1 Tool Holder and Tools. | 1 Square Reamer. |
| 1 Mallet. | 1 Brace Screw Driver. |
| 2 No. 12 Hand Screws. | 1 Coe's Wrench. |
| 1 Pair Carpenter Pincers. | 1 File and Handle. |
| 1 Oil Can. | 1 Chalk Line, Pencil, etc. |
| 1 Miter Box. | 1 Box Assorted Nails. |

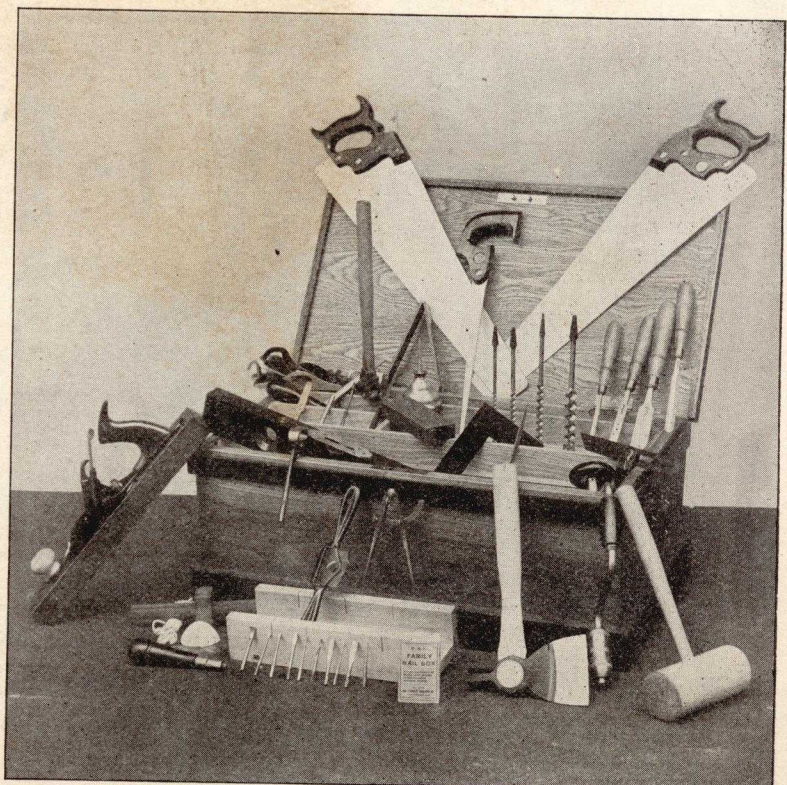


CHESTS OF TOOLS

The accompanying cut shows one of our Chests of Tools. These tools are of the very best quality, taken from our selected stock. Every tool warranted. The Tool Chests are made of ash, nicely finished.

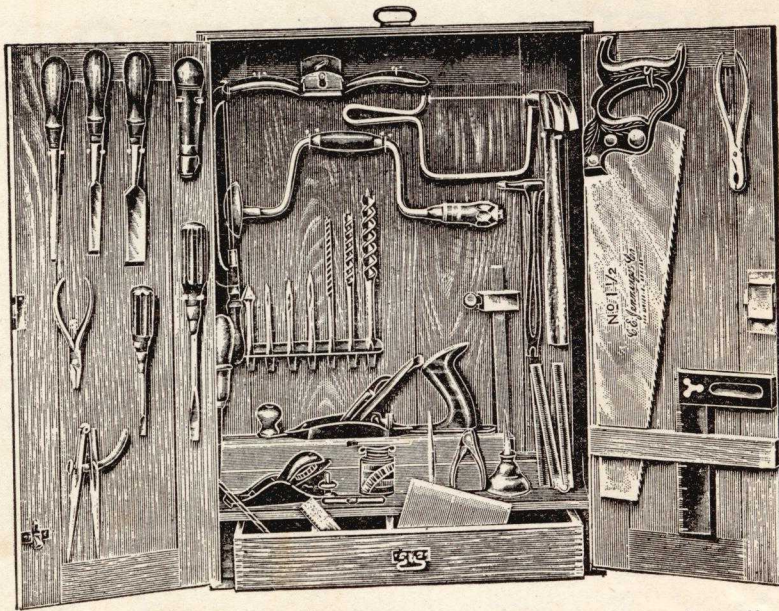
Price of Chest, complete with tools as listed below..... **\$5.00**

- | | |
|--|---|
| 1 No. 25 Tool Chest. | 1 Hatchet. |
| 1 Bailey Block Plane. | 1 Bit Brace. |
| 1 Bailey Jack Plane. | 4 Auger Bits, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 22-inch Rip Saw. | 1 Gimlet Bit. |
| 1 22-inch Panel Saw. | 1 Square Reamer. |
| 1 12-inch Compass Saw. | 1 Screw Driver Bit. |
| 3 Chisels, $\frac{1}{4}$, $\frac{1}{2}$, 1 inch. | 1 4-inch Screw Driver. |
| 1 Gouge, $\frac{1}{2}$ inch. | 1 Plumb and Level. |
| 1 Nail Hammer. | 1 Tool Holder and Tools. |
| 1 2-foot Rule. | 1 Pair Carpenter Pincers. |
| 1 6-inch Try Square. | 1 Oil Stone. |
| 1 8-inch T Bevel. | 1 Oil Can. |
| 1 Pair 6-inch Dividers. | 1 File and Handle. |
| 1 Nail Set. | 1 Spoke Shave. |
| 1 Marking Gauge. | 1 Miter Box. |
| 1 Mallet. | 1 Chalk Line, Pencil, Etc. |
| 1 Box Assorted Nails. | |



We have a complete line of our tool chests and tools, ranging in price from \$12.50 to \$50.00, circular of which will be mailed on request.

Tool Cabinets with Tools.

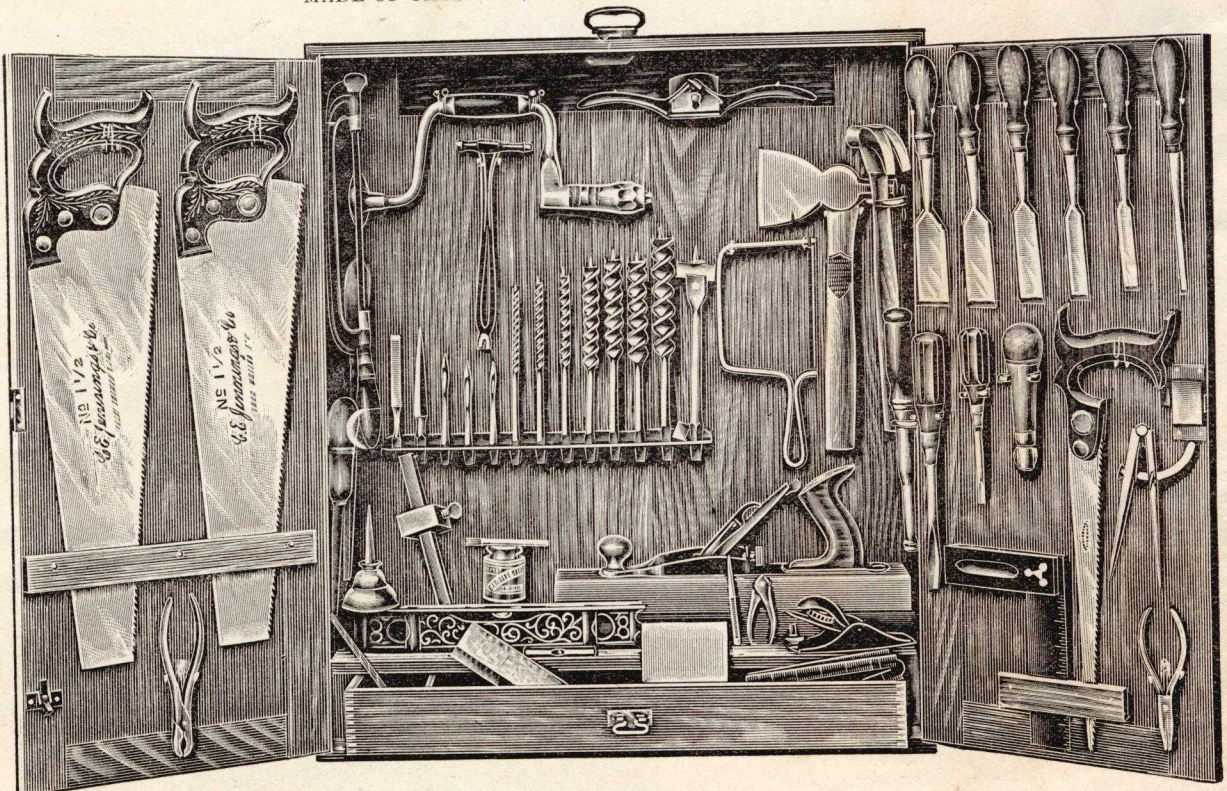


"A place for everything and everything in its place."

Price of Cabinet No. 1 complete with set of Tools as shown in cut and listed below. \$12.50

- | | | | | | | |
|---|---|-----------------------------|---|----------------------------|---|----------------------|
| 1 only No. 18 Panel Saw. | 1 | only Countersink. | 1 | 2-foot Rule. | 1 | Paw Cutting Nippers. |
| 1 " Nickel Plated Brace | 1 | " Cabinet Scraper. | 1 | 6-inch Try Square. | 1 | Saw File and Handle. |
| 3 Gimlet Bits 2, 4 and 6 in. | 1 | " Claw Hammer. | 1 | 1 Marking Gauge. | 1 | Oil Stone. |
| 2 " Auger Bits, 1/2, 3/4 and 1 in. | 1 | " Tack Hammer. | 1 | 1 Knurled Nail Sets. | 1 | Oil Can. |
| 3 " Buck Bros. Chisels, 1/4, 1/2, 1 in. | 1 | " Tool Handle and 10 tools. | 1 | 1 Pair Winged Pliers 6 in. | 1 | Can Glue. |
| 2 " Screw Drivers, 3 and 6 in. | 1 | " Spoke Shave. | 1 | 1 Pair Gas Pliers. | 1 | Coping Saw. |
| 1 Hack Saw Frame. | 1 | " Jack Plane. | 1 | 1 Pair Flat Nose Pliers. | | |
| 1 Pocket Level. | 1 | " Block Plane. | | | | |

We make up these Tool Cabinets with different assortments of Tools to order. Write us for Prices.



"A place for everything and everything in its place."

Outside Dimensions, 28 $\frac{7}{8}$ x 24 $\frac{7}{8}$ x 8 $\frac{3}{16}$ inches.

Price of Cabinet complete with set of Tools as shown in cut and listed below. **\$28.00**
 1 Steel Claw Hammer.

- | Price of Cabinet complete with set of Tools as shown in cut and listed | | | |
|---|--|---|-----------------------------|
| 1 8 in. Ratchet Brace. | 7 Auger Bits, $\frac{1}{8}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{3}{4}$, 1. | 2 Files. | 1 Steel Claw Hammer. |
| 1 24 in. Cross Cut Saw. | 1 Countersink. | 1 Tool Handle with 10 Tools, | 1 Tack Hammer. |
| 1 24 in. Rip Saw. | 1 Square Reamer. | 1 Jack Plane. | 1 Claw Hatchet. |
| 1 12 in. Compass Saw. | 1 No. 100 Coping Saw. | 1 Block Plane. | 1 Marking Gauge. |
| 6 Chisels, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$. | 1 Oil Stone. | 1 7 $\frac{1}{2}$ Try Square. | 1 Pair 6-in. Wing Dividers. |
| 3 Gimlet Bits. $\frac{1}{16}$, $\frac{7}{16}$, $\frac{3}{8}$. | 1 Oil Can. | 1 2-foot Rule. | 1 Pair Gas Pliers. |
| | 1 Can Liquid Glue. | 1 3-inch Hexagon Pocket Level. | 1 Pair Flat Nose Pliers. |
| | | 1 12-inch Iron Plumb and Level. | 1 Pair Cutting Pliers. |
| | | | 1 Spoke Shave. |
| | | 1 Automatic Drill. with 8 Drills in Handle. | |
| | | 1 6-inch Screw Driver. | |
| | | 2 Assorted Screw Driver Bits. | |
| | | 1 Cabinet Scraper. | |
| | | 1 Hack Saw Frame. | |
| | | 1 Steel Expansive Bit. | |
| | | 1 Knurled Nail Set. | |

Individual and General Tools

USED at the ARMOUR INSTITUTE of TECHNOLOGY, CHICAGO
FOR WOODWORK PATTERN WORK AND LATHE WORK

JAMES RITCHEY, Instructor.

Each carpenter's bench has five individual drawers, in each of which are the cutting or edge tools of the student, using that drawer of which he alone has the key. Tools are as follows:

- 1 No. 5 Bailey Iron Jack Plane
- 1 No. 19 7-inch Bailey Iron Block Plane.
- 1 No. 30 1 1/4-inch Buck Bros. Chisel.
- 1 No. 30 3/4-inch Buck Bros. Chisel.
- 1 No. 30 1/2-inch Buck Bros. Chisel.
- 1 No. 30 1/4-inch Buck Bros. Chisel.
- 1 No. 51 Stanley Rule.

In the cupboard of the same bench, and to which each of the five students using the bevel has a key, are the following tools for general use:

- 1 No. 7 22-inch Bailey Jointer Plane.
- 1 10-inch Back Saw.
- 1 6-inch Try Square.
- 1 No. 1 1/2 Maydole Hammer.
- 1 Small Mallet.
- 1 8-inch Carpenter's Pinchers.
- 1 6-inch Champion Screw Driver.
- 1 No. 18 8-inch Eureka T Bevel.
- 1 2-inch Boxwood Spoke Shave.
- 1 8-inch Wing Divider.
- 1 No. 33 8-inch Barber Brace.
- 1 Brace Screw Driver Bit.

- 1 Buck Bros. Rose Countersink.
- 1 each Syracuse Drills 1/8-in., 3-16-in., 1/4-in.
- 1 Knurled Nail Set.
- 2 Brad Awls.
- 1 Scratch Awl.
- 1 7-inch Wood or Cabinet File.
- 1 10-inch Wood or Cabinet File.
- 1 6x2 Washita Oil Stone.
- 1 4x1 3/4 x 1/4 x 5/8 Slip Stone.
- 1 Small Oil Can.

Each Wood Turning Lathe has a case of six drawers, one large drawer containing the general tools and five small individual drawers, each of which contains the tools used only by the student having the key to that drawer. Each of the individual drawers contains the following tools:

- 1 No. 20 3/4 inch Buck Bros. Handled Turning Gouge.
- 1 No. 20 3/8-inch Buck Bros. Handled Turning Gouge.
- 1 No. 20 1/4-inch Buck Bros. Handled Turning Gouge.
- 1 No. 19 1 1/4-inch Buck Bros. Turning Chisel.
- 1 No. 19 3/4-inch Buck Bros. Turning Chisel.

- 1 No. 19 3/8-inch Buck Bros. Turning Chisel.
- 1 No. 19 1/4-inch Buck Bros. Turning Chisel.

In the sixth or large drawer of each Lathe are the following tools for general use of the five students using that Lathe:

- 1 6-inch Outside Wing Caliper.
- 1 No. 26 4-inch Plain Outside Caliper.
- 1 No. 27 4-inch Plain Inside Caliper.
- 1 6-inch Wing Divider.
- 1 Scratch Awl.
- 1 6-inch Eureka T Bevel.
- 1 No. 14 4 1/2 inch Adjustable Try Square.
- 1 No. 51 Stanley Rule.
- 1 3/4-inch Buck Bros. Scraping Tool.
- 1 1/2-inch Buck Bros. Scraping Tool.
- 1 1/4-inch Buck Bros. Scraping Tool.
- 1 each Right and Left Buck Bros. Special Skew Point Scraping Tool.
- 1 Buck Bros. Spear Point Scraping Tool.
- 1 1/2-inch Buck Bros. Round Point Scraping Tool.
- 1 1/4-inch Buck Bros Round Point Scraping Tool.
- 1 6-inch Champion Screw Driver.
- 1 6x2 Washita Oil Stone.
- 1 4 1/2 x 2 x 1/4 x 5/8 Washita Slip Stone.
- 1 Oil Can.

Individual and Bench Tools

Used at the LEWIS INSTITUTE in Wood Shop and Pattern Making
We Approximate Individual Set at \$9.00—General Tools at \$10.00

INDIVIDUAL EQUIPMENT AT EACH BENCH

- 1 No. 5 Bailey Iron Jack Plane.
- 1 No. 4 Bailey Iron Smooth Plane.
- 1 No. 9 1/2 Bailey Iron Block Plane.
- 1 No. 62 Stanley Marking Gauge.
- 1 No. 32 1/4-inch Paring Chisel.
- 1 No. 32 1/2-inch Paring Chisel.
- 1 No. 32 3/4-inch Paring Chisel.
- 1 No. 20 1/4-inch Buck Bros. Handled Turning Gouge.
- 1 No. 20 3/4-inch Buck Bros. Handled Turning Gouge.
- 1 No. 19 1/4-inch Buck Bros. Handled Turning Chisel.
- 1 No. 19 3/4-inch Buck Bros. Handled Turning Chisel.

- 1 No. 14 India Slip Stone.
- 1 No. 18 5/8-inch Buck Bros. Parting Tool.
- 1 5-inch Inside Spring Caliper.
- 1 5-inch Outside Spring Caliper.
- Bench Equipment at Each Bench**
- 1 No. 8 20-inch Bishop Crosscut Saw.
- 1 No. 8 20-inch Bishop Rip Saw.
- 1 No. 8 10-inch Bishop Back Saw.
- 1 3/8-inch Buck Bros. Mortise Chisel.
- 1 No. 2 Hickory Mallet.
- 1 Wood Bench Hook.
- 1 No. 29 India Oil Stone.
- 1 No. 12 Steel Oil Can.
- 1 No. 13 Barber's Plain N. P. Brace.

- 1 1/4-inch Russell Jennings Auger Bit.
- 1 3/8-inch Russell Jennings Auger Bit.
- 1 1/4-inch Russell Jennings Auger Bit.
- 1 3/4-inch Russell Jennings Auger Bit.
- 1 Cup Point Knurled Nail Set.
- 1 Whittling Knife.
- 1 No. 18 8-inch T Bevel.
- 1 No. 12 8-inch Stanley Try Square.
- 1 8-inch P. S. & W. Wing Divider.
- 1 5-inch Champion Screw Driver.
- 1 No. 12 Hammond Claw Hammer.
- 1 Bench Brush.

Manual Training Equipments

We herewith list a number of different Manual Training Equipments, the majority of which we have furnished and are now in every-day use. We submit these lists to give the prospective buyer an approximate idea of the possible cost of equipping a room.

The following list was prepared by Mr. Robert M. Smith, Supervisor of Manual Training in Chicago, and same is now in use there. Approximate price of this equipment is \$375.00.

For a Class of Twenty-Four Pupils.

- | | |
|--|---|
| 6 Smith's Four-Pupil Benches. | 24 5½-inch Drawing Compasses, with needle and pencil point. |
| 1 Foot Power Grindstone. | 12 Rubber Erasers. |
| 24 No. 5 Bailey Iron Jack Planes. | 1 Blackboard Compass. |
| 8 No. 2 Bailey Iron Smooth Planes. | 2 Gross Steel Thumb Tacks. |
| 10 Blades for No. 5 Planes. | 24 12 inch Drawing Rules. |
| 5 Blades for No. 2 Planes. | 3 1-inch Varnish Brushes. |
| 12 Bishop Back Saws, 10 inch. | 3 1½-inch Varnish Brushes. |
| 6 Bishop Panel Saws No. 90, 20 inch. | 6 Varnish Cups. |
| 6 Bishop Rip Saws No. 90, 20 inch. | 1 Slip Stone. |
| 3 14-inch Turning Saws. | 6 6-inch Mounted Washita Oil Stones. |
| 6 14-inch Turning Saw Blades. | 24 7½-inch Special Steel Try Squares. |
| 3 12-inch Turning Saws | 1 No. 18 8-inch Stanley T Bevels. |
| 6 12-inch Turning Saw Blades. | 24 No. 61 Rules. |
| 6 No. 12 Hammond Hammers. | 12 No. 62 Stanley Marking Gauges. |
| 12 No. 1 Rubber Mallets. | 6 7-inch B. & C. Dividers. |
| 3 No. 223 Nickel Plated Bit Braces. | 6 4-inch Champion Screw Drivers. |
| 1 Set Jennings Auger Bits. | 6 Assorted Nail Sets. |
| 6 Jennings Dowel Bits, 3¾, 2½ and 1¾ inch. | 12 Henckel Chip Carving Knives. |
| 2 Buck Bros. Rose Countersinks. | 24 Swedish Whittling Knives. |
| 2 Assorted Screw Driver Bits. | 4 8-inch Flat Files. |
| 6 No. 12 Steel Oilers. | 6 8-inch Half Round Files. |
| 2 No. 2 ½ inch Buck Bros. Chisels. | 1 Saw File and Handle. |
| 6 " 2 ¼ " " " " | 1 Auger Bit File. |
| 6 " 2 ⅝ " " " " | 1 File Card and Brush. |
| 24 " 2 1 " " " " | 6 Coping Saw Frames, No. 100. |
| 12 " 8 ⅞ " " " Gouges. | 12 Assorted Carvers' Punches. |
| 6 " 52 Stanley Spoke Shaves. | 6 No. 6 Bliss Hand Screws. |
| 3 Gooseneck Scrapers. | 6 No. 10 Bliss Hand Screws |
| 6 Straight Cabinet Scrapers. | 6 Counter Brushes |
| 24 Ebony Lined T Squares, 24 inch. | 6 Whisk Brooms. |
| 24 45° Ebony Lined Triangle, 7 inch. | 4 30 inch Colt's Iron Clamps. |
| 2 30x60° Ebony Lined Triangle, 9 inch. | 6 6-inch Colt's Iron Clamps. |
| 24 Drawing Boards, School Size. | |

The above list, you will notice, also comprises 24 Sets of Drawing Tools.

Bench Equipment in Use at the Bradley Polytechnic Institute.

The following is a list of tools provided for each of the benches used in the wood working shop at Bradley Polytechnic Institute. The approximate cost of set complete is \$10.00.

- | | |
|--|---|
| 1 No. 5 Bailey Iron Jack Plane. | 1 No. 6 Sloyd Knife. |
| 1 No. 16 Bailey Iron Block Plane. | 1 Buck Bros. Round Point Nail Set. |
| 1 No. 1 Bench Rule. | 1 Screw Driver, 4-inch Blade. |
| 1 Pair Winding Sticks. | 1 ¼-inch No. 2 Buck Bros. Chisel. |
| 1 10-inch Back Saw. | 1 1-inch No. 2 Buck Bros. Chisel. |
| 1 No. 34 Barber Bit Brace. | 1 ½-inch Russell-Jennings Dowel Bit. |
| 1 7-oz. Hammond Bell Face Claw Hammer. | 1 5/16-inch Russell-Jennings Dowel Bit. |
| 1 2½-inch Mallet. | 1 Bench Brush. |
| 1 No. 64½ Stanley Marking Gauge. | 1 2½-inch Wood Spoke Shave. |
| 1 6-inch Try Square. | 1 Sharpening Outfit, consists of 1 Oil Can, 1 Oil Stone, 1 Waste Cup. |
| 1 9-inch Eagle T Bevel. | |

We Make Special Prices on School Equipments.

School Equipments for 24 Pupils and Teacher.

The following list of Benches and Tools was prepared by Mr. E. L. Valentine of Chicago, who has taught this work for the past five years and who fully understands the needs of a shop equipment. An approximate price on this set is \$500.00. Write us for further information.

INDIVIDUAL TOOLS.

- 25 No. 5 Bailey Iron Jack Plane.
- 25 No. 2 Bailey Iron Smoothing Plane.
- 25 Emery Oil Stones $\frac{3}{4} \times 1\frac{1}{2} \times 6$ inch.
- 25 No. 20 Try Squares $7\frac{1}{2}$ -inch.
- 25 Whittling Knives.
- 25 No. 61 Boxwood Rules.
- 25 10-inch No. 8 Bishop Back Saws.
- 25 1-inch No. 33 Buck Bros. Socket Firmer Chisels.
- 25 Bristle Counter Brushes.
- 25 Bench Hooks.
- 25 $\frac{3}{8}$ -inch No. 8 Buck Bros. Gouges.
- 25 Drawing Boards, 12x18-inch.
- 25 Tee Squares.
- 25 45° Triangles.
- 25 Eagle Pencil Compasses.
- 25 Erasers, $\frac{5}{8} \times 4$ -inch.
- 13 No. 62 Stanley Marking Gauges.
- 13 $\frac{1}{4}$ -inch No. 33 Buck Bros. Socket Firmer Chisels.
- 13 Champion Screw Drivers, 4-inch.
- 13 Bennis & Call Wing Dividers, 6-inch.
- 13 Hammond No. 12 Bell Faced Claw Hammers.
- 13 No. 90 Bishop Rip Saws 8 pts., 22-inch.
- 13 No. 90 Bishop Cross Cut Saws 10 pts., 20-inch.

GENERAL EQUIPMENT.

- 12 Double Benches.
- 1 Teacher's Bench.
- 1 Langdon Mitre Box.
- 1 12-inch Monkey Wrench.
- 1 Pair 5-inch Cutting Pliers.
- 1 14-inch Bishop Compass Saw.
- 1 Buck Bros.' Drawing Knife, 8-inch.
- 1 Wentworth Saw Vise.
- 1 Morrill Saw Set.
- 1 Set $\frac{3}{8}$ -inch Steel Figures.
- 1 Set $\frac{1}{2}$ -inch Steel Letters.

- 1 Set Jennings Auger Bits.
- 1 Set Jennings Dowell Bits.
- 1 Grind Stone with frame complete.
- 1 No. 90 Bishop's 26-inch Rip Saw.
- 2 Buck Bros.' Rose Countersinks.
- 2 Screw Driver Bits.
- 1 Clark's Countersink.
- 1 Steer's Expansive Bit. large, $\frac{7}{8}$ to 3-inch.
- 1 10-inch Barber's Ratchet Brace.
- 3 Plain 8-inch Braces.
- 3 Washita Gouge Slips.
- 12 Assorted Carvers' Punches.
- 12 Chip Carving Knives.
- 6 Knurled Nail Sets—Cup Point.
- 3 Cabinet Scrapers.
- 3 14-inch Turning Saws.
- 3 12-inch Turning Saws.
- 3 $\frac{1}{2}$ -inch No. 8 Buck Bros.' Tang Firmer Gouges.
- 3 $\frac{1}{4}$ -inch No. 8 Buck Bros.' Tang Firmer Gouges.
- 12 No. 12 Bliss Hand Screws.
- 12 No. 6 Bliss Hand Screws.
- 6 6-inch Colt, Eccentric Clamps.
- 6 12-inch “ “ “
- 6 24-inch “ “ “
- 2 48-inch “ “ “
- 3 Saw Files, 5-inch with Handle.
- 1 Rat Tail File, 6-inch with Handle.
- 12 Assorted Wood Files.
- 6 Varnish Cups.
- 6 “ Brushes.
- 1 Gross No. 3 Lead Pencils.
- 3 Dozen Carpenter Pencils.
- 12 No. 100 Coping Saws.
- 3 Rubber Mallets.
- 1 8-inch T Bevel.
- 2 6-inch T Bevel.
- 1 Automatic Hand Drill, with 8 Drills.
- 3 $\frac{1}{2}$ -inch No. 33 Buck Bros.' Socket Chisels.
- 3 $\frac{3}{8}$ -inch “ “ “ “ “

An Equipment for Twelve Pupils.

The following is an inexpensive set of Manual Training Tools and Benches for twelve pupils. This set we have sold to a number of small cities, as an introductory set. The tools named below are of a good quality. We approximate this set at \$175.00. Write us for further particulars.

INDIVIDUAL TOOLS.

- 6 Double Benches.
- 12 No. 2 Bailey Smooth Planes.
- 12 $\frac{1}{4}$ -inch Buck Bros.' Chisels, ground sharp.
- 12 $\frac{1}{2}$ -inch “ “ “ “ “
- 12 $\frac{3}{4}$ -inch “ “ “ “ “
- 6 Marking Gauges, No. 62.
- 6 6-inch Wing Dividers, P. S. & W.
- 12 12-inch Boxwood Rules.
- 6 $7\frac{1}{2}$ -inch Stanley Try Squares, No. 20.
- 6 Counter Dusters.
- 6 20-inch Bishop Rip Saws, No. 8.
- 6 20-inch Bishop Cross Cut Saws, No. 8.
- 6 10-inch Bishop Back Saws, No. 8.
- 6 4-inch Champion Screw Drivers.

- 6 Oil Stones in Case.
- 6 Oil Cans.
- 12 No. 12 Hammond Claw Hammers.
- 12 Cabinet Files and Handles, 10-inch.
- 6 Hickory Mallets, No. 2.

GENERAL TOOLS.

- 3 Only No. 5 Bailey Iron Jack Planes.
- 1 1-inch Buck Bros.' Chisel, ground sharp, No. 2.
- 1 $1\frac{1}{4}$ -inch Buck Bros.' Chisel, ground sharp, No. 2.
- 1 $1\frac{1}{2}$ -inch Buck Bros. Chisel, ground sharp, No. 2.

- 1 Set Jennings' Pattern Auger Bits, $\frac{1}{4}$ to 1-inch in case.
- 2 8-inch T Bevels, No. 25.
- 1 26-inch Bishop Rip Saw, No. 8.
- 1 24-inch Bishop Cross Cut Saw, No. 8.
- 1 Buck Bros.' Countersink.
- 1 “ “ Screw Driver Bit.
- 2 Bit Braces.
- 6 No. 12 Bliss Hand Screws.
- 3 No. 8 “ “ “
- 3 14-inch Turning Saws.
- 2 Only Gouge Slips.
- 2 Only $\frac{3}{8}$ -inch Buck Bros.' Gouges, No. 8.
- 2 Only $\frac{3}{4}$ -inch “ “ “ “
- 1 Pint LePage's Glue.

Manual Training Outfit

for Twelve Pupils and Teacher

The following list of benches and tools differs from sets listed here that we furnish **Single Benches** as shown on page 1 of this catalogue instead of two pupil benches as quoted in other sets. **\$260.00** is an approximate price on this outfit. Write us for further particulars.

INDIVIDUAL TOOLS.

- 13 Orr & Lockett Single Bench with drawer.
- 13 No. 5 Bailey Iron Jack Planes.
- 13 " 2 " " Smooth Planes.
- 13 " 29 India Oil Stones, Medium.
- 13 " 20 6-in. Try Squares.
- 13 " 61 Boxwood Rules.
- 13 " 1 Sloyd Knives.
- 13 " 2 3/4 Buck Bros. Chisels.
- 13 " 2 1/2 " " " "
- 13 " 2 1/4 " " " "
- 13 " 2 Counter Brushes.
- 13 Bench Hooks.
- 13 No. 8, 10 Bishop Buck Saws.
- 13 " 90 8-pt. Bishop Rip Saws.
- 13 " 90 10-pt. Bishop Panel Saws.
- 13 " 62 Stanley Marking Gauges.
- 13 4-in. Champion Screw Drivers.
- 13 6-in. Bemis & Call Wing Dividers.
- 13 No. 12 Hammond Hammers.
- 13 10-in. Cabinet Files and Handles.
- 13 Hickory Mallets No. 1.
- 13 Oil Cans.
- 13 Chip Carving Knives.

GENERAL TOOLS.

- 1 No. 90, 26-in. 6 pt. Bishop Rip Saw.
- 1 " " " " Cross-cut Saw.
- 2 Buck Bros. Rose Countersinks.
- 3 Plain Bit Braces.
- 1 Set Russell Jenning's Auger Bits.
- 1 " " " Dowell Bits.
- 12 No. 12. Bliss Hand Screws.
- 6 " 6, " " " "
- 3 14-in. Turning Saw Frames and Blades.
- 3 1/2 Buck Bros. Tang Gouges No. 8.
- 3 1 " " " " "
- 3 36-in. Colt's Eccentric Clamps.
- 3 Shellac or Varnish Cups.
- 3 Shellac Brushes.
- 3 Gouge Slip Stones.
- 3 8-in. No. 25—Stanley T Bevels.
- 1 Ball Bearing Bicycle Grind Stone.
- 1 No. 95 Morrill Saw Set.
- 6 5-in. Slim Taper Files and Handles.
- 3 Screw Driver Bits for Braces.
- 6 Asst. Nail Sets.
- 6 Asst. Cabinet Scrapers.
- 2 14-in. No. 2 Bishop Compass Saws.
- 1 Wentworth Saw Vise.
- 1 Set Steel Letters and Figures for Marking Tools.
- 1 Large Clark Expansive Bit.
- 2 No. 2—1-in. Buck Bros. Chisels.
- 1 " 1 1/4-in. " " " "
- 1 " 1 1/2-in. " " " "

Bench and Lathe Tools used at the English High and Manual Training School of Chicago

The English High and Manual Training School have a similar constructed bench to the Armour Institute, having five individual drawers and cupboard for general bench tools. They also have a case of drawers attached to each lathe for individual and general tools.

BENCH TOOLS IN EACH BENCH.

Individual Tools in each Drawer.	General Tools in Cupboard.
1 No. 30—1-in. Buck Bros. Chisel.	1 No. 12—8-in. Try Square.
1 No. 30—1/2-in. " " " "	1 8-in. Barbers Brace.
1 No. 30—1/4-in. " " " "	1 No. 12 Claw Hammer.
1 No. 5 Bailey Iron Jack Plane.	1 Rubber Mallet.
1 No. 3 Bailey Iron Smooth Plane.	1 4-in. Champion Screw Driver.
	1 Marking Gauge.
	1 No. 18—8-in. T Bevel.
	1 7-in. Bemis & Call Divider.
	1 India Oil Stone.
	1 Oil Can.
	1 Bench Brush.
	1 22-in. Cross Cut Saw.
	1 22-in. Rip Saw.
	1 10-in. Back Saw.

TURNING TOOLS FOR EACH LATHE.

Individual Tools in Drawers.	General Tools for each Lathe.
1 No. 19—1 1/2-in. Buck Bros. Turning Chisel	1 Oil Can.
1 No. 19—1 1/2-in. " " " "	1 Brush
1 No. 19—1 1/2-in. " " " "	1 India Oil Stone.
1 No. 20—1-in. " " " " Gouge	1 Pr. Inside Calipers.
1 No. 20—1 1/2-in. " " " "	1 Pr. Outside Calipers.
1 No. 20—1 1/2-in. " " " "	
1 1/2-in. Square Scraper Chisel	
1 1/2-in. Round Nose Chisel	
1 1/2-in. Diamond Point Chisel.	
1 Slip Stone.	
1 Rule.	

Bench and Lathe Tools used at the Chicago Manual Training Schools Chicago.,

GENERAL BENCH TOOLS IN EACH BENCH INDIVIDUAL TURNING TOOLS AT EACH LATHE.

- 1 22-inch 8 pt. Rip Saw.
- 1 22-inch 10 pt. Cross Cut Saw.
- 1 10-inch 14 pt Back or Tenon Saw.
- 1 12-oz. Claw Hammer.
- 1 9-inch Steel Scale.
- 1 No. 65 Boxwood Marking Gauge.
- 1 5-inch Spring Caliper.
- 1 Oil Can.
- 1 6-inch Stanley Try Square.
- 1 8-inch Stanley T Bevel.
- 1 No. 5 Bailey Iron Plane.

INDIVIDUAL BENCH TOOLS IN EACH BENCH

- 1 No. 2, 1/4-inch Buck Bros. Chisel.
- 1 No. 2, 1/2-inch " " " "
- 1 No. 2, 3/4-inch " " " "
- 1 No. 5 Bailey Double Plane, Iron only.

- 1 No. 20 1/4-in. Buck Bros. Handled Turning Gouges.
- 1 No. 20 1/2-in. " " " " "
- 1 No. 20 3/4-in. " " " " "
- 1 No. 19 3/8-in. " " " " Chisel.
- 1 No. 19 1-in. " " " " "

In addition to the above they use the following Gouges for pattern work.

- 1 No. 8 1/2-inch Buck Bros. Gouge.
- 1 No. 8 3/4-inch " " " "
- 1 No. 10 1/2-inch " " " "
- 1 No. 10 3/4-inch " " " "

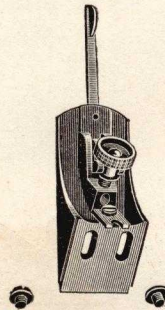
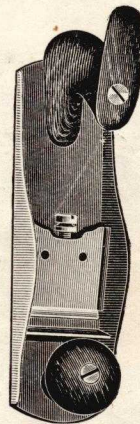
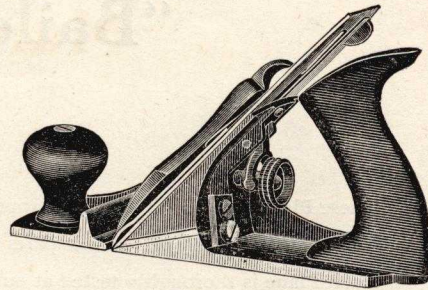
"Bed Rock" Planes

In the "Bed Rock" Plane, we have perfected a design which allows of the combination of the utmost solidity and rigidity, with a wider range of adjustments than heretofore placed on any Iron Plane.

The advantages of this design are made possible by the extreme nicety of their manufacture.

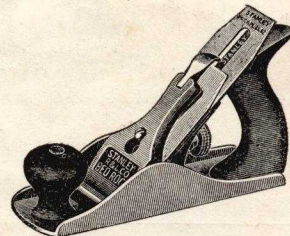
Among the Novel Points in this Plane are:

- A Frog with a machined face.
 - A Frog so designed that the entire bottom of the Frog rests solidly on a seat formed in the Plane Body.
 - A Frog so designed that its sides conform to Guides formed in the Plane Body, which Guides lend accuracy of adjustment to the Frog as well as prevent any possibility of its wobbling.
 - A reliable adjustment for width of Throat opening.
- The Cuts herewith will illustrate.
Special literature regarding "Bed Rock" Planes furnished on application.

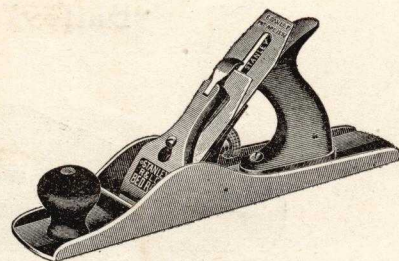


PRICES

No.		Price Each
602	Smooth, 7 inches in Length, 1 $\frac{1}{8}$ in. Cutter	\$1.70
603	Smooth, 8 inches in Length, 1 $\frac{3}{4}$ in. Cutter	1.80
604	Smooth, 9 inches in Length, 2 in. Cutter	2.00
604 $\frac{1}{2}$	Smooth, 10 inches in Length, 2 $\frac{3}{8}$ in. Cutter	2.30

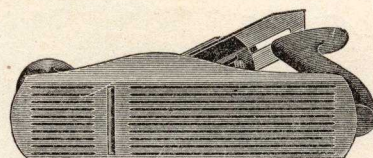


No.		Price Each
605	Jack 14 inches in Length, 2 in. Cutter	\$2.30
605 $\frac{1}{2}$	Jack, 15 inches in Length, 2 $\frac{1}{4}$ in. Cutter	2.60
606	Fore, 18 inches in Length, 2 $\frac{3}{8}$ in. Cutter	2.80
607	Jointer, 22 inches in Length, 2 $\frac{3}{8}$ in. Cutter	3.35
608	Jointer, 24 inches in Length, 2 $\frac{3}{8}$ in. Cutter	4.00



Corrugated Bottoms

No.		Price Each
602	C Smooth, 7 inches in Length, 1 $\frac{1}{8}$ in. Cutter	\$1.70
603	C Smooth, 8 inches in Length, 1 $\frac{3}{4}$ in. Cutter	1.80
604	C Smooth, 9 inches in Length, 2 in. Cutter	2.00
604 $\frac{1}{2}$	C Smooth, 10 inches in Length, 2 $\frac{3}{8}$ in. Cutter	2.30
605	C Jack, 14 inches in Length, 2 in. Cutter	2.30
605 $\frac{1}{2}$	C Jack, 15 inches in Length, 2 $\frac{1}{4}$ in. Cutter	2.60
606	C Fore, 18 inches in Length, 2 $\frac{3}{8}$ in. Cutter	2.80
607	C Jointer, 22 inches in Length, 2 $\frac{3}{8}$ in. Cutter	3.35
608	C Jointer, 24 inches in Length, 2 $\frac{3}{8}$ in. Cutter	4.00



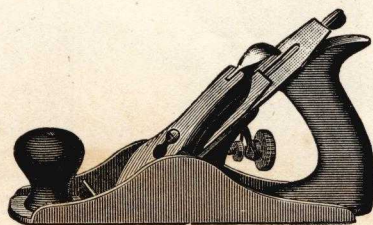
Our Large Tool Catalogue will be ready for distribution about January 1st, 1903. Write us.

"Bailey" Adjustable Planes

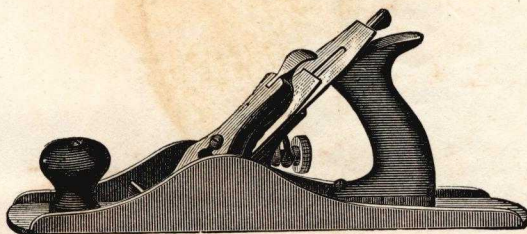
These Planes meet with universal approbation from the best Mechanics, as their extensive sale abundantly testifies. The superior methods for adjusting them readily in all their parts render them economical to the owner.

Each Plane is thoroughly tested at our Factory and put in perfect working order before being sent into the market. A printed description of the method of adjustment accompanies each plane. The Plane Irons are fully warranted.

Iron Planes

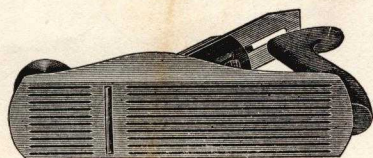


No.		Price Each
1	Smooth Plane, 5½ inches in length, 1¼ inch Cutter.....	\$1 13
2	Smooth Plane, 7 inches in length, 1½ inch Cutter.....	1 38
3	Smooth Plane, 8 inches in length, 1¾ inch Cutter.....	1 50
4	Smooth Plane, 9 inches in length; 2 inch Cutter	1 63
4½	Smooth Plane, 10 inches in length, 2¾ inch Cutter.....	1 88

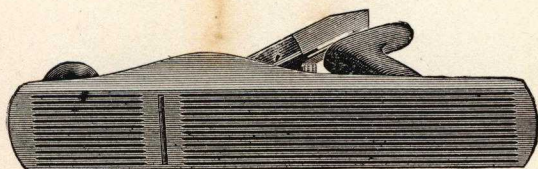


No.		Price Each
5	Jack Plane, 14 inches in length, 2 inch Cutter.....	1 88
5½	Jack Plane, 15 inches in length, 2¼ inch Cutter.....	2 13
6	Fore Plane, 18 inches in length, 2¾ inch Cutter.....	2 38
7	Jointer Plane, 22 inches in length, 2¾ inch Cutter.....	2 75
8	Jointer Plane, 24 inches in length, 2¾ inch Cutter.....	3 25

"Bailey" Adjustable Planes with Corrugated Bottoms



No.		Price Each
2 C	Smooth Plane, 7 inches in length, 1½ inch Cutter.....	\$1 38
3 C	Smooth Plane, 8 inches in length, 1¾ inch Cutter.....	1 50
4 C	Smooth Plane, 9 inches in length, 2 inch Cutter.....	1 63
4½C	Smooth Plane, 10 inches in length, 2¾ inch Cutter.....	1 88

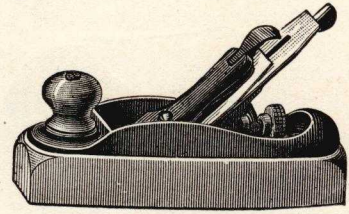


No.		Price Each
5 C	Jack Plane, 14 inches in length, 2 inch Cutter.....	1 88
5½C	Jack Plane, 15 inches in length, 2¼ inch Cutter.....	2 13
6 C	Fore Plane, 18 inches in length, 2¾ inch Cutter.....	2 38
7 C	Jointer Plane, 22 inches in length, 2¾ inch Cutter.....	2 75
8 C	Jointer Plane, 24 inches in length, 2¾ inch Cutter.....	3 25

We make special prices on School Equipments

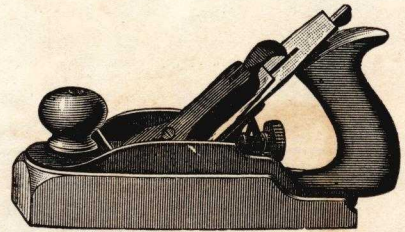
"Bailey" Adjustable Wood Planes

	Prices Each
No. 21. Smooth Plane, 7 inches in length, $1\frac{3}{4}$ inch cutter	\$1 00
No. 22. Smooth Plane, 8 inches in length, $1\frac{3}{4}$ inch cutter.....	1 00
No. 23. Smooth Plane, 9 inches in length, $1\frac{3}{4}$ inch cutter	1 00
No. 24. Smooth Plane, 8 inches in length, 2 inch cutter	1 00
No. 25. Block Plane, $9\frac{1}{4}$ inches in length, $1\frac{3}{4}$ inch cutter	1 00



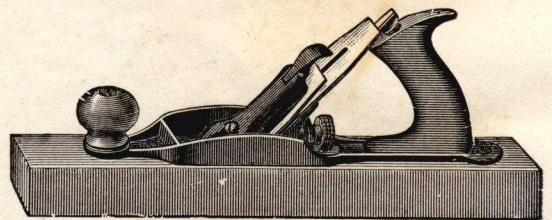
Style of No. 21 to 25.

	Prices Each
No. 35. Handle Smooth, 9 inches in length, 2 inch cutter.....	\$1 25
No. 36. Handle Smooth, 10 inches in length, $2\frac{3}{8}$ inch cutter.....	1 38
No. 37. Jenny Smooth, 13 inches in length, $2\frac{3}{8}$ inch cutter.....	1 50




Style of No. 35 to 37.

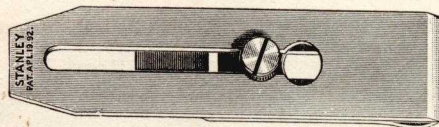
	Prices Each
No. 26. Jack Plane, 15 inches in length, 2 inch cutter.....	\$1 13
No. 27. Jack Plane, 15 inches in length, $2\frac{1}{8}$ inch cutter.....	1 25
No. 27 $\frac{1}{2}$. Jack Plane, 15 inches in length, $2\frac{1}{4}$ inch cutter.....	1 25
No. 28. Fore Plane, 18 inches in length, $2\frac{3}{8}$ inch cutter.....	1 38
No. 29. Fore Plane, 20 inches in length, $2\frac{3}{8}$ inch cutter.....	1 38
No. 30. Jointer Plane, 22 inches in length, $2\frac{3}{8}$ inch cutter.....	1 50
No. 31. Jointer Plane, 24 inches in length, $2\frac{3}{8}$ inch cutter.....	1 50
No. 32. Jointer Plane, 26 inches in length, $2\frac{3}{8}$ inch cutter.....	1 63
No. 33. Jointer Plane, 28 inches in length, $2\frac{3}{8}$ inch cutter.....	1 63
No. 34. Jointer Plane, 30 inches in length, $2\frac{3}{8}$ inch cutter.....	1 75



Style of No. 26 to 34.

 Extra Plane-Woods of every style can be supplied cheaply.

"Bailey" Plane Irons



Size Inches.....	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{3}{4}$
Single Irons. Price each.....	\$0 14	\$0 17	\$0 19	\$0 20	\$0 22	\$0 24	\$0 25	\$0 27
Double Irons. Price each.....	27	30	34	37	40	44	48	52

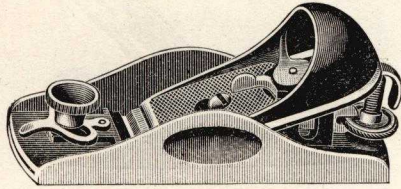
Orders for Plane Irons should designate the No. of the Plane for which they are wanted.

On request we will mail our Machinist Tool Catalogue.

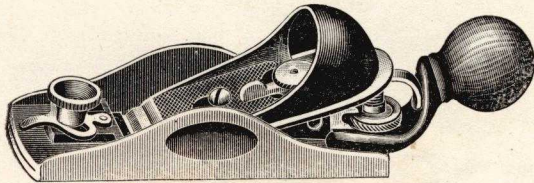
"Bailey" Adjustable Block Planes

MANUFACTURED ONLY BY THE STANLEY RULE AND LEVEL COMPANY

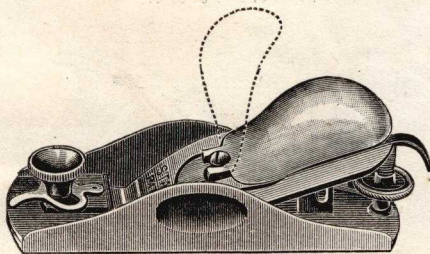
These Block Planes stand as the highest type of Block Plane manufactured. Each plane has an adjustable throat opening, a Lateral adjustment and the "Handy" feature, which gives the workman a more secure grip on the tool than is possible in any other design.



No.	Price Each
9 1/2 Block plane, 6 inches in length, 1 3/4 inch cutter.....	\$0.75
15 Block plane, 7 inches in length, 1 3/4 inch cutter.....	.80
16 Nickel trimmings, 6 in. in length, 1 3/4 inch cutter.....	.83
17 Nickel trimmings, 7 in. in length, 1 3/4 inch cutter.....	.88



No.	Price Each
9 3/4 Rosewood handle, 6 in. in length, 1 3/4 inch cutter.....	\$0.88
15 1/2 Rosewood handle, 7 in. in length, 1 3/4 inch cutter.....	.93

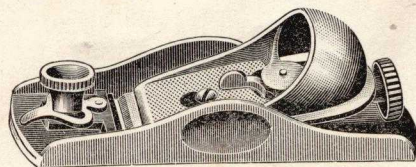


Knuckle Joint Block Planes

The knuckle joint in the cap makes it a lever too; and placing the cap in position, will also clamp the cutter securely in its seat.

These planes have the "Handy" feature, adjustable throat, Bailey adjustment and Lateral adjustment.

No.	Price Each
18 Nickel trimmings, 6 in. in length, 1 3/4 inch cutter.....	\$0.88
19 Nickel trimmings, 7 in. in length, 1 3/4 inch cutter.....	.93



Low Angle Block Planes

These planes have the cutters set at a very low angle, which is of great advantage when working across the grain. The adjustment is of a most approved design. These planes have the "Handy" features and adjustable throat.

No.	Price Each
60 1/2 Low angle, block, 6 in. in length, 1 1/2 inch cutter.....	\$0.75
65 1/2 Low angle, block, 7 in. in length, 1 3/4 inch cutter.....	.80
60 Nickel trimmings, 6 in. in length, 1 1/2 inch cutter.....	.75
65 Nickel trimmings, 7 in. in length, 1 3/4 inch cutter.....	.88

Block Plane Irons

For No	9 1/2,	9 3/4,	15,	15 1/2,	16,	17,	18,	19,	60,	60 1/2,	65,	65 1/2
Price each.....	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15

Orders for Block Plane Irons should designate the No. of the Planes for which they are wanted.

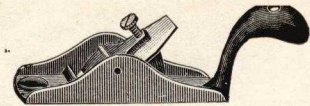
Our large tool Catalogue will be ready for distribution about January 1st, 1903. Write us.

Stanley Block Planes

No. **101** Block Plane, 3½ inches in length, 1 inch cutter. Price each.....\$0.10

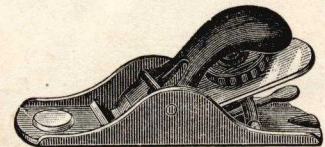


No. **100** Block Plane, handled, 3½ inches in length, 1 inch cutter.....
Price each.....\$0.15



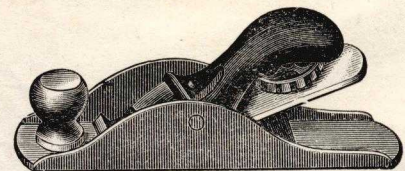
No. **102** Block Plane, 5½ inches in length, 1¼ inch cutter. Price each....\$0.20

No. **103** Block Plane, adjustable, 5½ inches in length, 1¼ inch cutter.....
Price each.....\$0.30



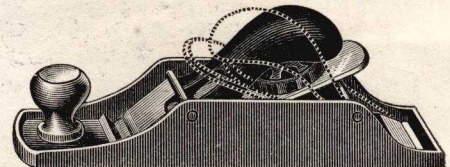
No. **110** Block Plane, 7½ inches in length, 1¼ inch cutter. Price each....\$0.30

No. **120** Block Plane, adjustable, 7½ inches in length, 1¼ inch cutter.
Price each.....\$0.40

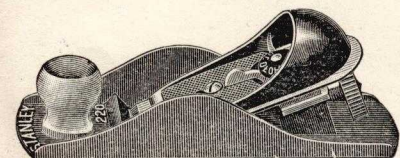


No. **130** Block Plane (double-ender), 8 inches in length, 1¼ inch cutter....
Price each.....\$0.40

This Plane has two slots, and two cutter seats. It can be used as a Block Plane; or by reversing the position of the cutter and the clamping wedge (see dotted lines in the engraving), it can be used to plane close up into corners, or places difficult to reach with any other plane.



No. **220** Block Plane, adjustable, 7½ inches in length, 1¼ inch cutter.....
Price each.....\$0.40



Stanley Block Plane Irons

For No.....	100	101	102	103	110	120	130	220
Price each.....	\$0.05	\$0.05	\$0.10	\$0.10	\$0.10	\$0.15	\$0.10	\$0.15

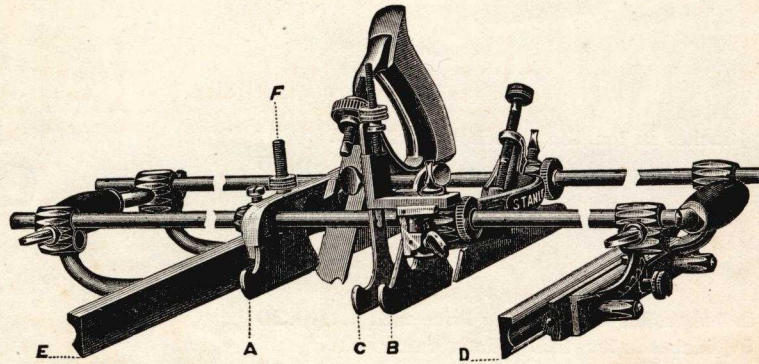
Orders for Plane Irons should designate the No. of the Planes for which they are wanted.

Write us for Prices on Manual Training Equipments

Stanley Patent Universal Plane

No. 55

This Tool, in the hands of an ordinary carpenter, can be used on all lines of work covered by a full assortment of so-called Fancy Planes.



No. 55. Stanley Universal Plane, with 52 Tools, Bits, etc.....\$12 00

The Plane is nickel plated; the 52 cutters are arranged in four separate cases, and the entire outfit is packed in a neat wooden box.

This Plane consists of:—

A Main Stock (A) with two sets of traverse sliding arms, a depth gauge (F) adjusted by a screw, and a slitting cutter with stop.

A Sliding Section (B) with a patent vertically adjustable bottom.

The Auxiliary Center Bottom (C) is to be placed in front of the cutter, as an extra support or stop, when needed. This bottom is adjustable both vertically and laterally.

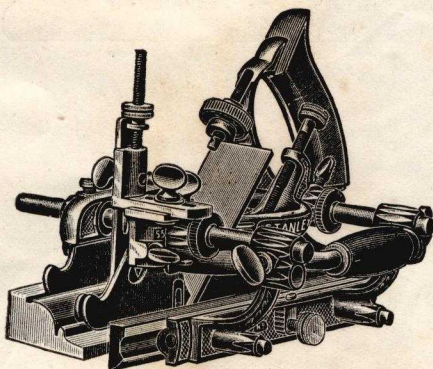
Fences (D) and (E). Fence D has a lateral adjustment by means of a screw, for extra fine work. The Fences can be used on either side of the Plane, and the rosewood guides can be tilted to any desired angle, up to 45°, by loosening the screws on the face. Fence E can be reversed for center beading wide boards.

An Adjustable Stop to be used in beading the edges of matched boards is inserted on the left hand side of sliding section (B).

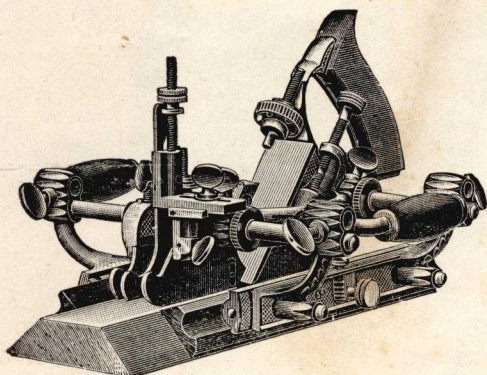
By means of the patent adjustable bottom and the auxiliary center bottom it is possible to use a cutter of practically any shape with this Plane.

Each Plane is sold with the fifty-two (52) cutters marked ♦ in upper plate on page 15.

Cutters shown in lower plate, page 15, are kept in stock and will be furnished to order. Cutters are shown in one-half size. Style, sizes and prices are given on page 15.



AS MOULDING PLANE



AS CHAMFER

Directions.

MOULDING PLANE.—Insert a cutter and adjust bottom of sliding section (B) to conform to the shape of the cutter; then, by means of the two check-nuts on the transverse arms, fasten this section firmly—before tightening the thumb-screws which secure the sliding section to the arms.

When needed, adjust auxiliary center bottom (C) for an additional support in front of the cutter. By tilting the rosewood guides on Fences D and E, mouldings of various angles may be formed.

MATCH, SASH, BEADING, REEDING, FLUTING, HOLLOW, ROUND, PLOW, RABBET AND FILLISTER PLANE.—Use in the same manner as for mouldings. In working match and sash cutters, the auxiliary center bottom (C) may be used as a stop.

DADO.—Remove the Fences (D and E) and set the spurs parallel with the edges of cutter. Insert long adjustable stop on left hand side of sliding section.

SLITTING PLANE.—Insert the cutter and stop on right hand side of main stock, and use Fence D and E for guide.

CHAMFER.—Insert the desired cutter; fasten a fence on each side of the Plane, and tilt the rosewood guides to required angle. For chamfer beading, use in the same form as above, and feed the cutter down, gradually, by use of thumb-nut for adjustment.

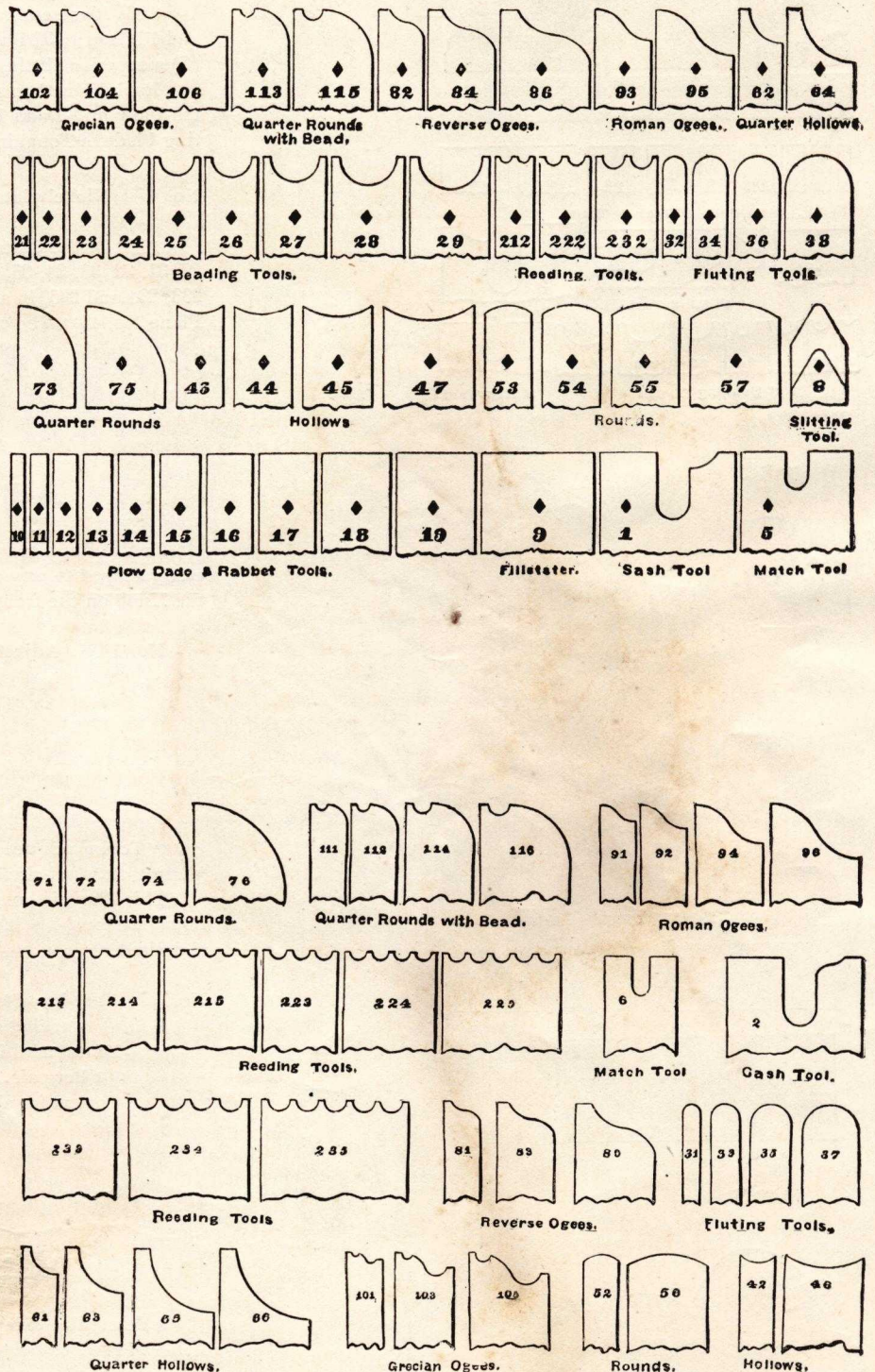
WRITE FOR SPECIAL PRICES ON FULL EQUIPMENTS.

We Make Special Prices on School Equipments.

Cutters for Stanley Patent Universal Plane No. 55

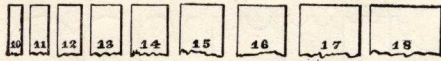
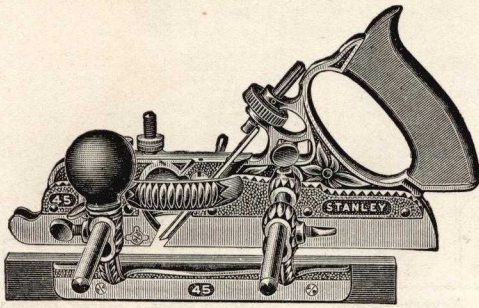
Chestnut

No.	Size	Style	Each
1	1 1/2 in.	Sash Tool.....	\$0.50
2	1 1/2 in.	" " " " " " " "	.50
5	1/2 in.	Match " " " " " "	.50
6	1/2 in.	" " " " " " " "	.50
8	1/2 in.	Slitting Tool.....	.30
9	1 1/2 in.	Filletster.....	.25
10	1/2 in.	Plow and Dado Tool....	.15
11	1/2 in.	" " " " " " " "	.15
12	1/2 in.	" " " " " " " "	.15
13	1/2 in.	" " " " " " " "	.15
14	1/2 in.	" " " " " " " "	.20
15	1/2 in.	" " " " " " " "	.20
16	1/2 in.	" " " " " " " "	.20
17	1/2 in.	" " " " " " " "	.20
18	1/2 in.	" " " " " " " "	.20
19	1/2 in.	" " " " " " " "	.25
21	1/2 in.	Bead Tool.....	.15
22	1/2 in.	" " " " " " " "	.15
23	1/2 in.	" " " " " " " "	.15
24	1/2 in.	" " " " " " " "	.20
25	1/2 in.	" " " " " " " "	.20
26	1/2 in.	" " " " " " " "	.25
27	1/2 in.	" " " " " " " "	.25
28	1/2 in.	" " " " " " " "	.30
29	1/2 in.	" " " " " " " "	.30
31	1/2 in.	Fluting Tool.....	.30
32	1/2 in.	" " " " " " " "	.30
33	1/2 in.	" " " " " " " "	.30
34	1/2 in.	" " " " " " " "	.30
35	1/2 in.	" " " " " " " "	.30
36	1/2 in.	" " " " " " " "	.30
37	1/2 in.	" " " " " " " "	.30
38	1/2 in.	" " " " " " " "	.30
42	1/2 in.	Hollow.....	.20
43	1/2 in.	" " " " " " " "	.20
44	1/2 in.	" " " " " " " "	.20
45	1/2 in.	" " " " " " " "	.20
46	1/2 in.	" " " " " " " "	.20
47	1/2 in.	" " " " " " " "	.20
52	1/2 in.	Round.....	.20
53	1/2 in.	" " " " " " " "	.20
54	1/2 in.	" " " " " " " "	.20
55	1/2 in.	" " " " " " " "	.20
56	1/2 in.	" " " " " " " "	.20
57	1/2 in.	" " " " " " " "	.20
61	1/2 in.	Quarter Hollow.....	.45
62	1/2 in.	" " " " " " " "	.45
63	1/2 in.	" " " " " " " "	.45
64	1/2 in.	" " " " " " " "	.50
65	1/2 in.	" " " " " " " "	.50
66	1/2 in.	" " " " " " " "	.50
71	1/2 in.	Round.....	.45
72	1/2 in.	" " " " " " " "	.45
73	1/2 in.	" " " " " " " "	.45
74	1/2 in.	" " " " " " " "	.50
75	1/2 in.	" " " " " " " "	.50
76	1/2 in.	" " " " " " " "	.50
81	1/2 in.	Reverse Ogee.....	.45
82	1/2 in.	" " " " " " " "	.45
83	1/2 in.	" " " " " " " "	.45
84	1/2 in.	" " " " " " " "	.50
85	1/2 in.	" " " " " " " "	.50
86	1/2 in.	" " " " " " " "	.50
91	1/2 in.	Roman.....	.45
92	1/2 in.	" " " " " " " "	.45
93	1/2 in.	" " " " " " " "	.45
94	1/2 in.	" " " " " " " "	.50
95	1/2 in.	" " " " " " " "	.50
96	1/2 in.	" " " " " " " "	.50
101	1/2 in.	Grecian.....	.45
102	1/2 in.	" " " " " " " "	.45
103	1/2 in.	" " " " " " " "	.45
104	1/2 in.	" " " " " " " "	.50
105	1/2 in.	" " " " " " " "	.50
106	1/2 in.	" " " " " " " "	.50
111	1/2 in.	1/4 Round with Bead....	.45
112	1/2 in.	" " " " " " " "	.45
113	1/2 in.	" " " " " " " "	.45
114	1/2 in.	" " " " " " " "	.50
115	1/2 in.	" " " " " " " "	.50
116	1/2 in.	" " " " " " " "	.50
212	1/2 in.	Reed Tool, 2 Beads....	.20
213	1/2 in.	" " " " " " " "	.30
214	1/2 in.	" " " " " " " "	.40
215	1/2 in.	" " " " " " " "	.50
222	1/2 in.	" " " " " " " "	.20
223	1/2 in.	" " " " " " " "	.30
224	1/2 in.	" " " " " " " "	.40
225	1/2 in.	" " " " " " " "	.50
232	1/2 in.	" " " " " " " "	.20
233	1/2 in.	" " " " " " " "	.30
234	1/2 in.	" " " " " " " "	.40
235	1/2 in.	" " " " " " " "	.50

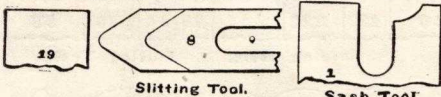


We Make any Style of Benches to Order. Write us for Prices.

Stanley Adjustable Beading Rabbet and Matching Plane.



Plow Dado & Rabbet Tools.



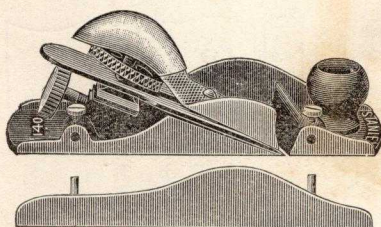
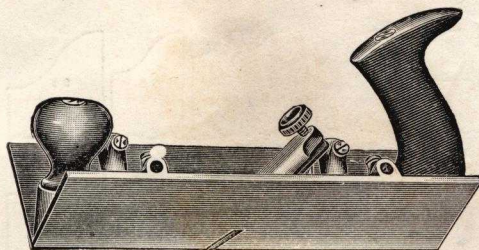
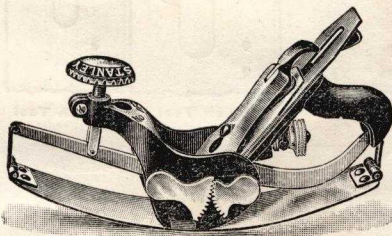
Slitting Tool.

Sash Tool



Beading Tools.

Match Tool



This Plane combines a main stock and a sliding section so arranged that cutters of different widths can be used. Each Plane is fitted with adjustable fence or guide and a depth gauge, and also with spurs for use in working across the grain. This plane can be used right or left hand.

This Plane embraces (1) Beading and Center Beading Plane; (2) Rabbet and Fillister; (3) Dado; (4) Plow; (5) Matching Plane; (6) Sash Plane; and (7) a superior Slitting Plane.

Each Plane has seven Beading Tools ($\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, and $\frac{1}{2}$ inch), ten Plow and Dado Bits ($\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8}$ inch), a Slitting Blade, a Tonguing Tool and a Sash Tool.

No. 45 Nickel plated with Twenty Tools, Bits, etc.....Each \$6.00

Of the Cutters for Plane No. 55 shown on page 15, Nos. 2, 6, 9, 28, 29, 31, 32, 33, 34, 35, 36, 37, 38, 212, 213, 214, 215, 222, 223, 224, 225, 232, 233, 234 and 235, in addition to the twenty sold with the Plane, will work in Plane No. 45. The other Cutters for No. 55 *can not* be used in No. 45.

Stanley Adjustable Circular Plane

In this improved form of Circular Plane, the Flexible Steel Face can be easily shaped to any required Arc, either Concave or Convex, by turning the Knob on the front of the Plane.

No. 113 Adjustable Circular Plane, $1\frac{3}{4}$ inch Cutter.....Each \$2.00

Core Box Plane

A Tool much needed by Pattern-Makers, Wheelwrights and others, for planing out semi-circles.

This Plane is constructed so that the sides can be extended by additional sections, $2\frac{1}{2}$ inch wide, until a diameter of 10 inches can be worked, if desired.

No. 57 Core-box Plane, (with one pair of additional sections) for working semi-circles, up to 5 inch diameter.....\$3.00

Extra additional sections, for working larger diameters,

Per pair......80

Cutters for above Plane......25

Rabbet and Block Plane.

A detachable side will easily change this tool from a Block Plane to a Rabbet Plane, or *vice versa*. The cutter is set on a skew.

No. 140 Rabbet and Block Plane, 7 inches in Length, $1\frac{3}{4}$ inch Cutter..... Each \$1.00

Cutters for above Plane..... " .20

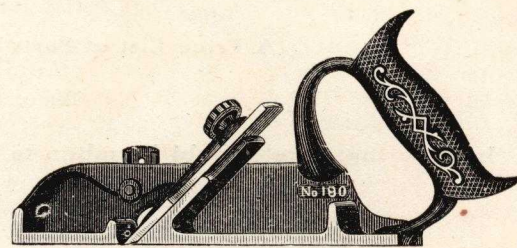
We Make Special Prices on School Work.

Improved Rabbet Plane

This Plane will lie perfectly flat on either side, and can be used with right or left hand equally well, while planing into corners or up against perpendicular surfaces.

All these Planes are fitted with a depth Gauge.

No.	Price Each
180 Iron Stock, 8 inches in Length, 1½ inch wide	\$0 75
181 Iron Stock, 8 inches in Length, 1¼ inch wide	75
182 Iron Stock, 8 inches in Length, 1 inch wide	75
190 Iron Stock, 8 inches in Length, 1½ inch wide, with Spur	86
191 Iron Stock, 8 inches in Length, 1¼ inch wide, with Spur	86
192 Iron Stock, 8 inches in Length, 1 inch wide, with Spur	86
Cutters for above Planes	20

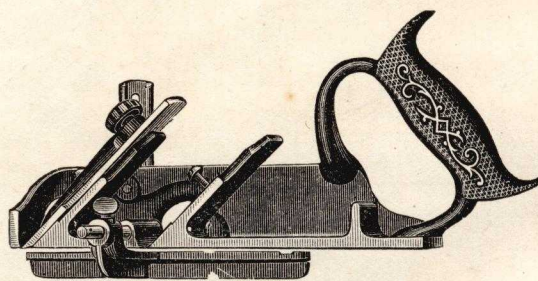


Rabbet Plane and Filletster

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left hand Filletster, with adjustable spur and depth gauge.

Remove the arm to which the fence is secured, and a Handled Rabbet Plane is had, and with two seats for the cutter, so that the tool can be used as a Bull-nose Rabbet if required.

No.	Price Each
78 Iron Stock and Fence, 8½ inches in Length, 1½ inch Cutter	\$1 13
Cutters for above Plane	20

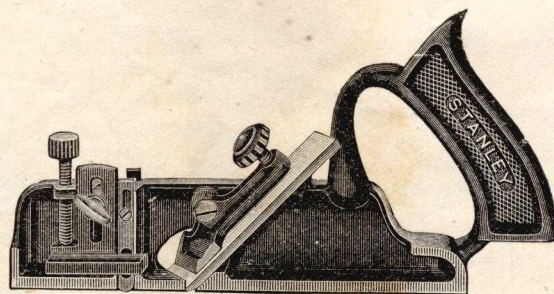


Improved Dado Planes

The Cutter is set on a skew. Plane is fitted with a Depth Gauge, adjustable by means of a Thumb Screw. Also with two adjustable Spurs, which can be adjusted to take up wear as well as for depth of cut.

No.	Price Each
39 Iron Stock, 8 inches Long, ¼ inch Cutter	\$1 20
39 Iron Stock, 8 inches Long, ⅜ inch Cutter	1 20
39 Iron Stock, 8 inches Long, ½ inch Cutter	1 20
39 Iron Stock, 8 inches Long, ⅝ inch Cutter	1 20
39 Iron Stock, 8 inches Long, ¾ inch Cutter	1 20
39 Iron Stock, 8 inches Long, ⅞ inch Cutter	1 20
39 Iron Stock, 8 inches Long, 1 inch Cutter	1 20
Cutters for above Planes	20

In ordering, designate by No. 39 and width of Cutter.

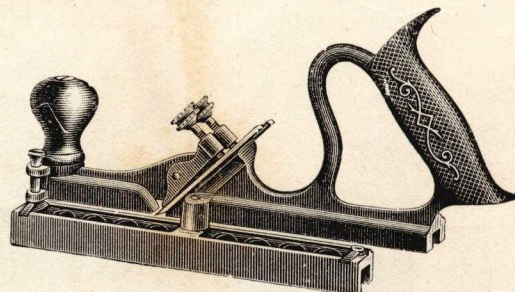


Tonguing and Grooving Plane

The Plane has two separate Cutters, a suitable distance apart. When the Guide, or Fence, is set as shown below, both Cutters work and a tongue can be made.

The Fence is hung on a pivot, and can be swung around, end for end. This movement covers one of the Cutters, and also furnishes a guide for grooving an exact match for the tongue.

No.	Price Each
48 Nickel-plated Stock and Fence, for ¾ to 1¼ inch Boards	\$1 88
49 Nickel-plated Stock and Fence, for ⅝ to ¾ inch Boards	1 88
Cutters for above Planes	20



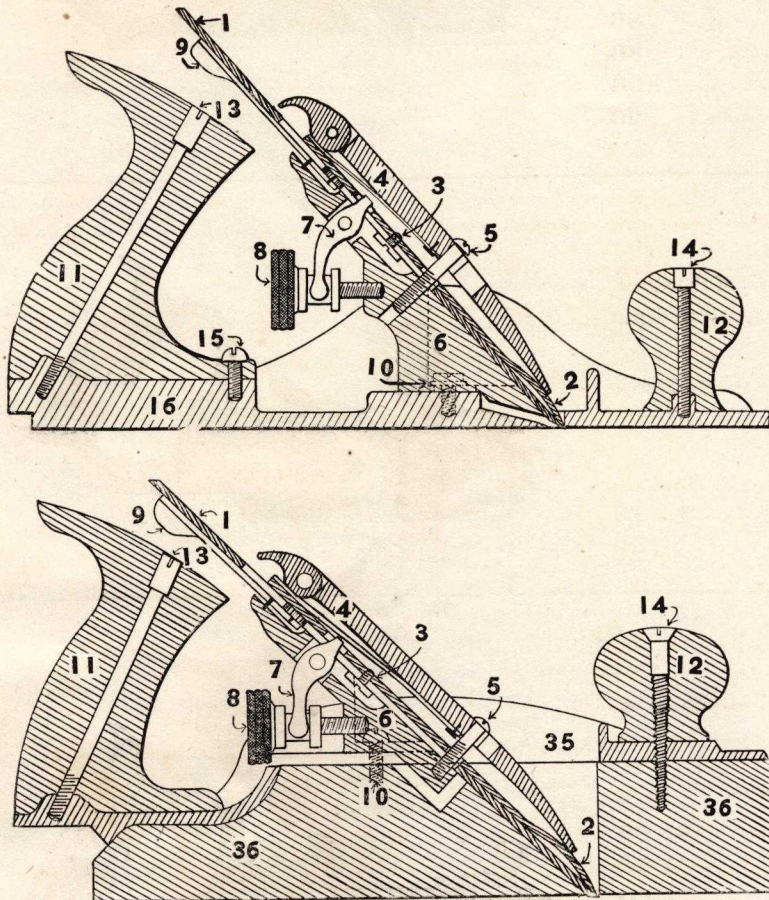
Write us for Prices on Complete Equipment

PARTS FOR PLANES

A Price List of Parts of Planes, shown below, will be found on page 19.

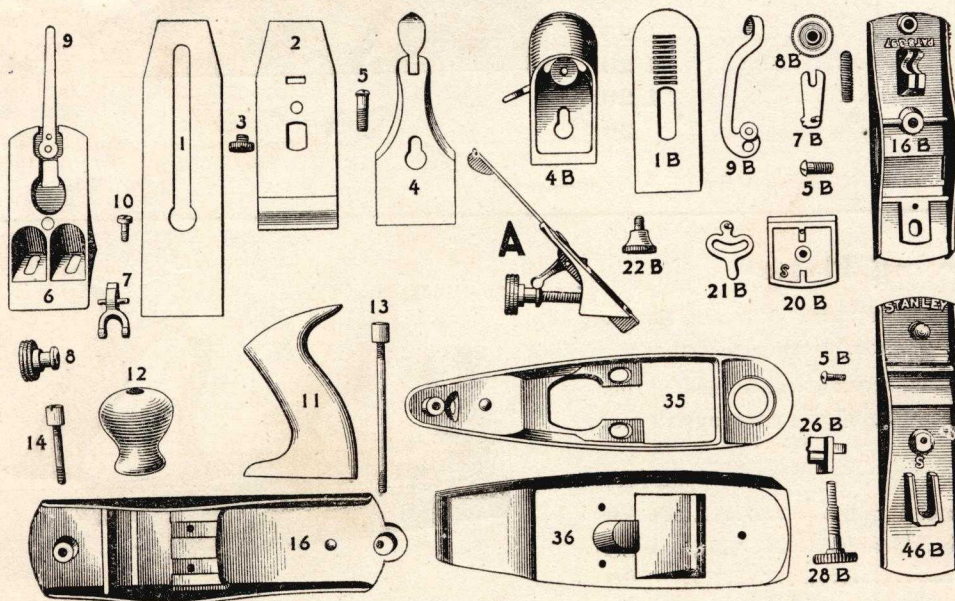
Ten cents will be the minimum charge for parts sent by mail.

In ordering, care should be taken to always give the number of the Plane for which the part is wanted.



Parts of Bailey Planes

- No. 1 Plane Iron.
- No. 2 Plane Iron Cap.
- No. 3 Plane Iron Screw.
- No. 4 Cap.
- No. 5 Cap Screw.
- No. 6 Frog.
- No. 7 "Y" Adjustment.
- No. 8 Brass Adjusting Nut.
- No. 9 Lateral Adjustment.
- No. 10 Frog Screw.
- No. 11 Handle.
- No. 12 Knob.
- No. 13 Handle "Bolt and Nut."
- No. 14 Knob "Bolt and Nut."
- No. 15 Handle Screw.
- No. 16 Bottom (Iron Plane.)
- No. 35 Top Casting (Wood Plane.)
- No. 36 Bottom (Wood Plane.)



Parts of Block Planes

Have B after the number.

- No. 1B Plane Iron.
- No. 4B Plane Iron Cap.
- No. 5B Cap Screw.
- No. 7B Adjusting Lever.
- No. 8B Adjusting Nut.
- No. 9B Lateral Adjustment.
- No. 16B Bottom (Adjustment Throat.)
- No. 20B Mouth Piece.
- No. 21B Eccentric Plate.
- No. 22B Knob.
- No. 26B Adjustable Frog.
- No. 28B Adjusting Screw.
- No. 46B Bottom.

Write us for prices on full equipment as shown on pages 5 to 8.

Parts of Planes—Continued

"Bailey" Iron Planes

For No.			Bottom (No.16)	Frog Complete (A)	Cap (4)	Handle (11)	Knob (12)	Bolt & Nut (13)	Iron, Single (1)	Iron, Double (1 & 2)	Adjusting Nut (8)	Frog Screw (10)	Cap Screw (5)
1,			\$0.65	.35	.25	.20	.15	.10	.18	.32	.10 each	.40 doz.	.40 doz.
2,	or No. 2	C,	.85	.35	.25	.20	.15	.10	.21	.35	.10 "	.40 "	.40 "
3,	"	C,	1.00	.35	.25	.20	.15	.10	.23	.38	.10 "	.40 "	.40 "
4,	"	C,	1.00	.35	.25	.20	.15	.10	.25	.42	.10 "	.40 "	.40 "
4½,	"	C,	1.20	.35	.25	.20	.15	.10	.28	.47	.10 "	.40 "	.40 "
5,	"	C,	1.20	.35	.25	.20	.15	.10	.25	.42	.10 "	.40 "	.40 "
5½,	"	C,	1.20	.35	.25	.20	.15	.10	.28	.47	.10 "	.40 "	.40 "
6,	"	C,	1.65	.35	.25	.20	.15	.10	.29	.48	.10 "	.40 "	.40 "
7,	"	C,	2.35	.35	.25	.20	.15	.10	.29	.48	.10 "	.40 "	.40 "
8,	"	C,	2.85	.35	.25	.20	.15	.10	.32	.50	.10 "	.40 "	.40 "
9,	"	C,	3.00	.35	.25	.20	....	....	.25	.38	.10 "	.40 "	.40 "
10,	"	C,	1.65	.35	.25	.20	.15	.10	.27	.45	.10 "	.40 "	.40 "
10½,	"	C,	1.50	.35	.25	.20	.15	.10	.27	.45	.10 "	.40 "	.40 "
11,	"	C,	1.20	.35	.25	.30	....	....	.29	.48	.10 "	.40 "	.40 "
12,	"	C,	1.20	.35	.25	.35	....	....	.20	....	.10 "	.40 "	.40 "

"Bailey" Wood Planes

For No.			Bottom (No.16)	Frog, Complete (A)	Cap (4)	Handle (11)	Knob (12)	Bolt & Nut (13)	Iron, Single (1)	Iron, Double (1 & 2)	Adjusting Nut (8)	Top Casting (35)	Frog Screw (10)	Cap Screw (5)
21,			\$0.40	.30	.20	....	.10	.10	.23	.38	.10 each	.20 each	.40 doz.	.40 doz.
22,			.40	.30	.20	....	.10	.10	.23	.38	.10 "	.20 "	.40 "	.40 "
23,			.40	.30	.20	....	.10	.10	.23	.38	.10 "	.20 "	.40 "	.40 "
24,			.40	.30	.20	....	.10	.10	.25	.42	.10 "	.20 "	.40 "	.40 "
25,			.40	.30	.20	....	.10	.10	.23	.36	.10 "	.20 "	.40 "	.40 "
26,			.50	.30	.20	.10	.10	.10	.25	.42	.10 "	.20 "	.40 "	.40 "
27,			.50	.30	.20	.10	.10	.10	.27	.45	.10 "	.20 "	.40 "	.40 "
27½,			.50	.30	.20	.10	.10	.10	.29	.47	.10 "	.20 "	.40 "	.40 "
28,			.70	.30	.20	.10	.10	.10	.29	.48	.10 "	.20 "	.40 "	.40 "
29,			.70	.30	.20	.10	.10	.10	.29	.48	.10 "	.20 "	.40 "	.40 "
30,			.80	.30	.20	.10	.10	.10	.28	.48	.10 "	.20 "	.40 "	.40 "
31,			.80	.30	.20	.10	.10	.10	.29	.48	.10 "	.20 "	.40 "	.40 "
32,			.85	.30	.20	.10	.10	.10	.32	.50	.10 "	.20 "	.40 "	.40 "
33,			.85	.30	.20	.10	.10	.10	.32	.50	.10 "	.20 "	.40 "	.40 "
34,			.85	.30	.20	.10	.10	.10	.32	.50	.10 "	.20 "	.40 "	.40 "
35,			.40	.30	.20	.10	.10	.10	.25	.42	.10 "	.20 "	.40 "	.40 "
36,			.50	.30	.20	.10	.10	.10	.29	.48	.10 "	.20 "	.40 "	.40 "
37,			.70	.30	.20	.10	.10	.10	.32	.50	.10 "	.20 "	.40 "	.40 "

"Bed Rock" Planes

For No.			Bottom	Frog Complete	Cap,	Handle	Knob	Bolt & Nut	Iron Single	Iron Double	Adjusting Nut	Frog Screw	Cap Screw
602	or 602	C,	\$1.10	.50	.30	.20	.15	.10	.21	.35	.10 each	.40 doz.	.40 doz.
603	" 603	C,	1.25	.50	.30	.20	.15	.10	.23	.38	.10 "	.40 "	.40 "
604	" 604	C,	1.25	.50	.30	.20	.15	.10	.25	.42	.10 "	.40 "	.40 "
604½	" 604½	C,	1.50	.50	.30	.20	.15	.10	.29	.48	.10 "	.40 "	.40 "
605	" 605	C,	1.50	.50	.30	.20	.15	.10	.25	.42	.10 "	.40 "	.40 "
605½	" 605½	C,	1.60	.50	.30	.20	.15	.10	.28	.47	.10 "	.40 "	.40 "
606	" 606	C,	2.20	.50	.30	.20	.15	.10	.29	.48	.10 "	.40 "	.40 "
607	" 607	C,	3.10	.50	.30	.20	.15	.10	.29	.48	.10 "	.40 "	.40 "
608	" 608	C,	3.50	.50	.30	.20	.15	.10	.32	.50	.10 "	.40 "	.40 "

"Bailey" Block Planes

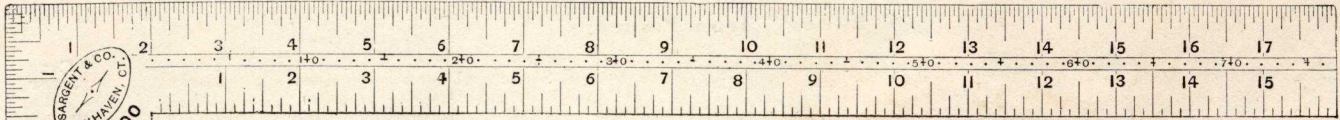
For No.			Bottom (16B.)	Cap (4B.)	Knob (22B.)	Adjusting Nut (8B.)	Adjusting Lever, (7B.)	Mouth Piece, (30B.)	Irons, (1B.)	Eccentric Plate, (21B.)	Lateral Adjustment (9B.)
9½,			\$0.70	.10	.10	.10	.05	.10	.17	.10	.10 each
9¾,			.70	.10	.10	.10	.05	.10	.17	.10	.10 "
15,			.75	.10	.10	.10	.05	.10	.17	.10	.10 "
15½,			.75	.10	.10	.10	.05	.10	.17	.10	.10 "
16,			.70	.15	.10	.10	.05	.10	.17	.10	.10 "
17,			.75	.15	.10	.10	.05	.10	.17	.10	.10 "
18,			.70	.20	.10	.10	.05	.10	.17	.10	.10 "
19,			.70	.20	.10	.10	.05	.10	.17	.10	.10 "

Circular Planes

For No.			Bottom	Frog, Complete	Cap	Top Casting	Handle	Adjusting Nut	Irons, Single	Irons, Double	Frog Screw	Cap Screw
13,			\$0.60	.35	.25	1.00	....	.10	.23	.38 each	.40 doz.	.40 doz.
20 and 20½,			.60	.35	.25	1.50	....	.10	.23	.38 "	.40 "	.40 "
113,			.60	.35	.25	1.00	.15	.10	.23	.38 "	.40 "	.40 "

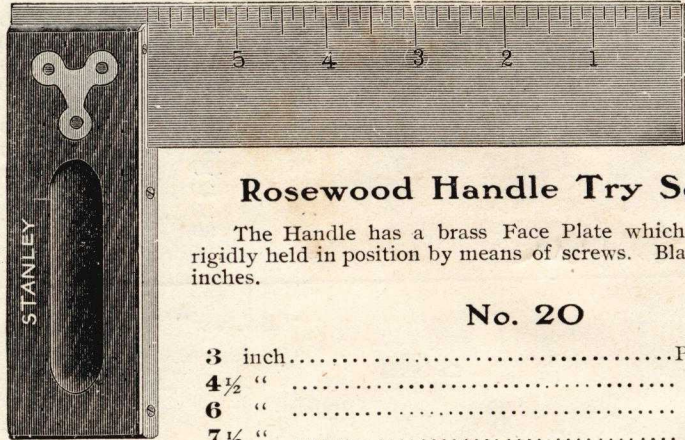
We make special prices on school equipments

SQUARES



Steel Squares

	Price Each
No. 100—Cast steel improved, "Centennial," 2 in. wide, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, with brace 8 square, $\frac{1}{16}$ scale, and Essex's new board measure, giving the feet and inches in full.....	\$1 50
No. 1—Cast steel for drafting, 2 in. wide, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, board and brace measure, 8 square and $\frac{1}{16}$ scale.....	1 23
No. 2—Cast steel, finish, 2 in. wide, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, board and brace measure, 8 square scale.....	1 13
No. 2½—Framing, 2 in. wide, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, both sides and edges, and brace measure.....	1 05
No. 3—Sup. Sup. Ex., 2 in. wide, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, board and brace measure.....	1 00
No. 4—Super Extra, 2 in. wide, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, board and brace measure, extra figures on inner edge of body.....	1 00
No. 7—B, 2 in wide, $\frac{1}{16}$, $\frac{1}{8}$, board measure	88c
No. 10—Extra 1 foot, $1\frac{1}{2}$ in. wide, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$	75c
No. 12—Cast steel 1 foot, $1\frac{1}{2}$ in. wide, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$	87c
No. 13—A Brace, 2 in. wide, $\frac{1}{16}$, $\frac{1}{8}$, board and brace measure (Eagle Squares)....	88c
No. 14—B, 2 in wide, $\frac{1}{16}$, $\frac{1}{8}$, board measure (Eagle Squares).....	86c



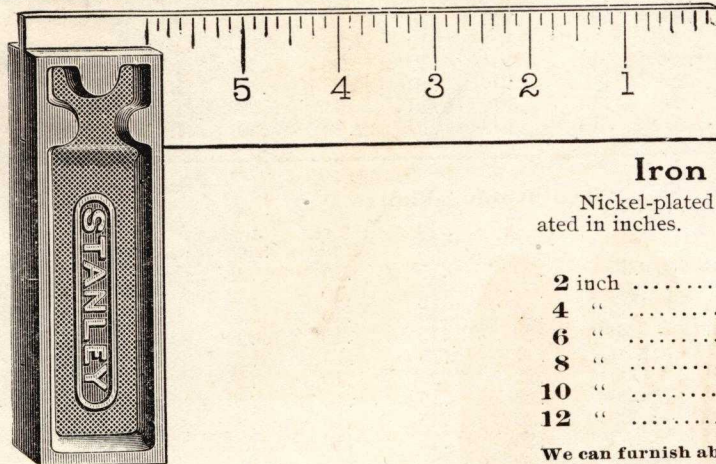
Rosewood Handle Try Squares.

The Handle has a brass Face Plate which is attached and rigidly held in position by means of screws. Blades Graduated in inches.

No. 20

3 inch.....	Price each	\$0 13
4½ ".....	" "	16
6 ".....	" "	21
7½ ".....	" "	24
9 ".....	" "	28
10 ".....	" "	31
12 ".....	" "	36
15 " with Rest.....	" "	53
18 " with Rest.....	" "	67

We can furnish above squares with metric graduations when wanted



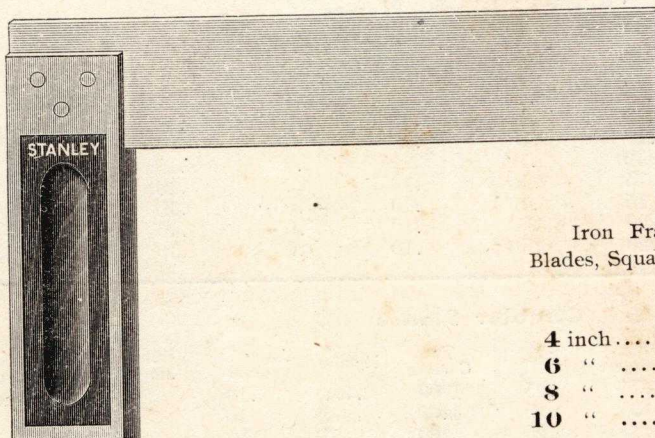
Iron Handle Try Squares.

Nickel-plated Handles, Square inside and out. Blades Graduated in inches.

No. 12

2 inch.....	Price each	\$0 15
4 ".....	" "	19
6 ".....	" "	24
8 ".....	" "	30
10 ".....	" "	37
12 ".....	" "	47

We can furnish above squares with metric graduations when wanted



Inlaid Try Squares.

Iron Frame Handle, with Rosewood (Inlaid) Sides, Steel Blades, Square inside and out.

No. 10

4 inch.....	Price each	\$0 44
6 ".....	" "	57
8 ".....	" "	74
10 ".....	" "	1 00

We Make Special Prices on School Equipments.

Winterbottom's Combined Try and Mitre Squares

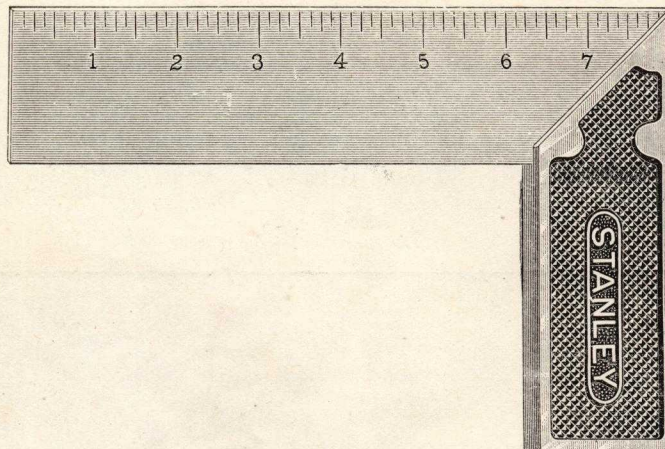
This Tool can be used with equal convenience and accuracy as a Try Square or a Mitre Square. By simply changing the position of the handle and bringing the mitred face at the top of the handle against one edge of the work in hand, a perfect mitre, or angle of 45 degrees, can be struck from either edge of the blade.

Iron Handle

Nickel plated Handle, Square inside and out. Blades graduated in inches.

No. 1

Inch	Price Each
4	40c
6	50c
8	60c



We can furnish these Squares with Metric Graduation.

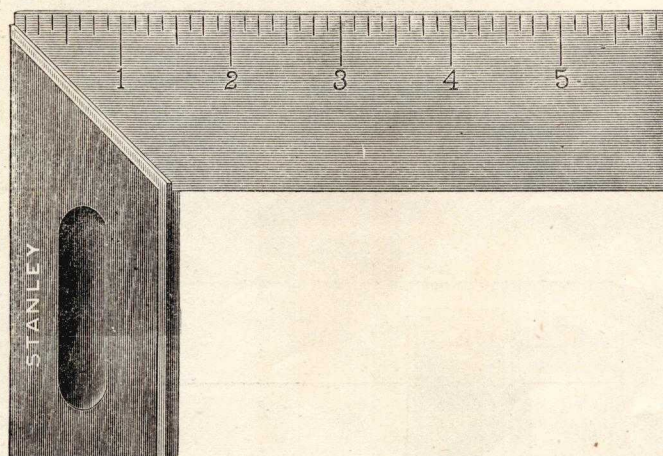
Rosewood Handle

Square inside and out. Blades graduated in inches.

The handles of these Try Squares have a Brass Face firmly riveted in position.

No. 2

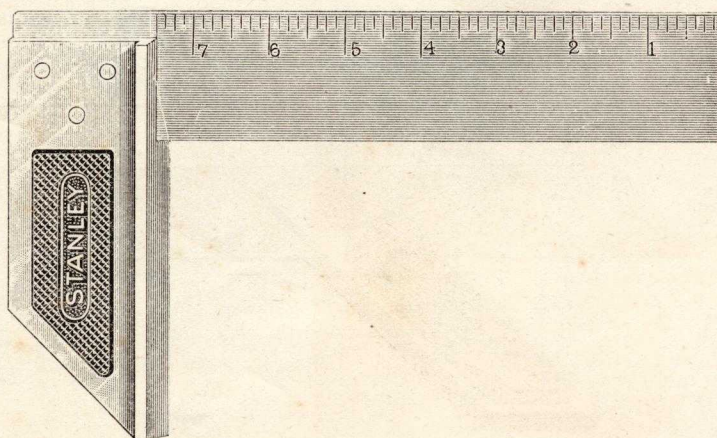
Inch	Price Each
4½	30c
6	34c
7½	40c
9	47c
12	60c



We can furnish these Squares with Metric Graduation.

Improved Mitre Try Square No. 15

	Price Each
Nickel-Plated Handle, 7½ inch Blade	45c

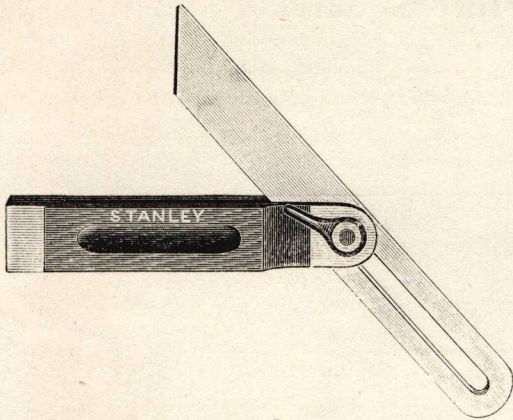


We Make Special Prices on School Equipments

Sliding T Bevels

Rosewood Handles, with Brass Lever (Flush)

The bevel blade can be made fast or loose by moving the lever with the thumb of the hand which grasps the handle, thus leaving the other hand of the workman free.



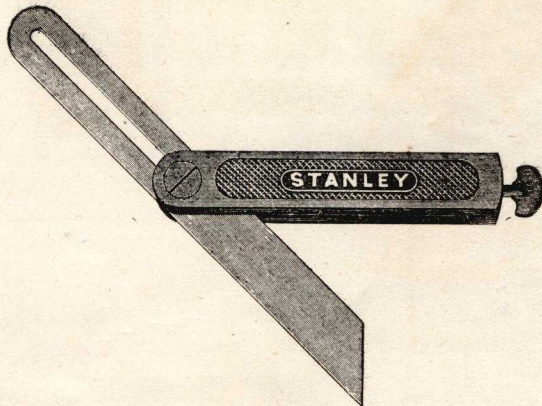
No. 25

Inch.	Price, each	
6	\$0 23
8	25
10	28
12	30
14	32

Eureka Flush T Bevels

Nickel Plated.

The blade is easily secured at any angle by turning the thumb screw at the lower end of the handle.



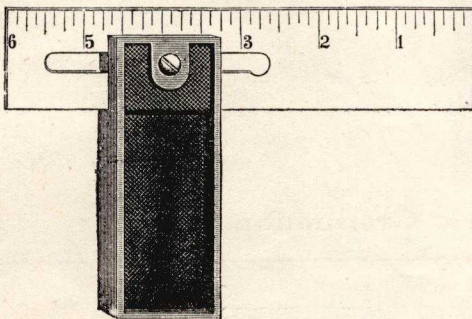
No. 18

Inch.	Price, each	
6	\$0 40
8	44
10	50

Adjustable Try Square

The blade of this Square can be firmly and accurately secured in its seat, at any point. When the blade is carried fully to the front of the handle, it is like an ordinary Try Square in all its uses, and the moving of the blade admits of making the Try Square equally perfect down to $\frac{1}{4}$ inch blade, or less. This tool will be found invaluable in putting in Butts or Locks, and doing short work about windows, doors, etc.

Iron Handle. Steel Blade graduated in inches.



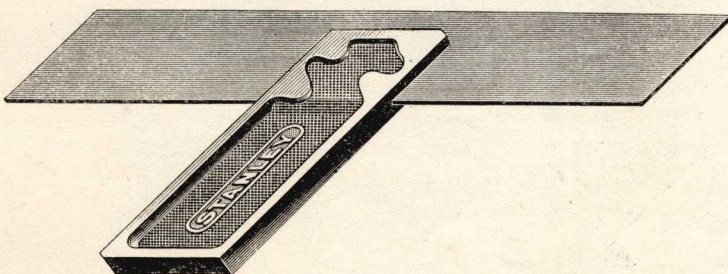
No. 14

Inch.	Price, each	
4	\$0 25
6	30

Improved Mitre Squares

Nickel Plated Handle.

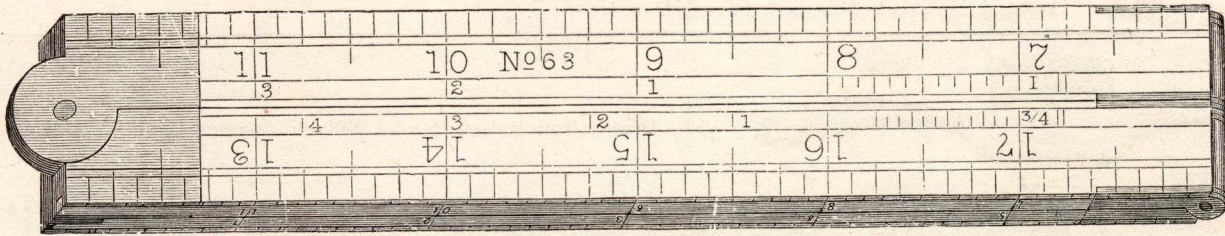
No. 16



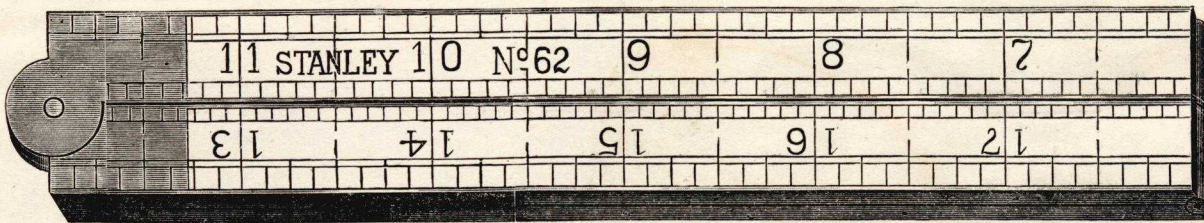
Inch.	Price, each	
8	\$0 47
10	54
12	60

We Make Special Prices for School Work.

Two Feet, Four Fold, Rules.

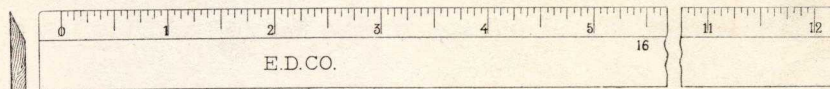


- No. **61** Square joint, middle plates, 8ths and 16ths inches, 1 inch wide. Price, each.....**\$0 10**
 No. **63** Square joint, edge plates, 8ths, 10ths, 12ths and 16ths inches, Dftg. scales, 1 inch wide. Price, each..... **18**



- No. **84** Square joint, half bound, 8ths, 10ths, 12ths and 16ths inches, Dftg. scales, 1 inch wide. Price, each**\$0 20**
 No. **62** Square joint, bound, 8ths, 10ths, 12ths and 16ths inches, Dftg. scales, 1 inch wide. Price, each **25**

Bench Rules.



- | | Per Dozen | Each |
|--|---------------|---------------|
| No. 25 Bench Rule, boxwood, beveled edge, graduated, 8ths and 16ths inches, 1 foot..... | \$0 85 | \$0 10 |
| No. 34 Bench Rule, maple, brass tips, graduated, 8ths and 16ths inches, 2 feet | 1 50 | 15 |
| No. 36 Bench Rule, beveled both edges, graduated 8ths only, 2 feet | 3 50 | 35 |
| No. 38 Bench Rule, maple, brass tips, beveled both edges, 8ths only, 3 feet..... | 5 00 | 50 |

Two Feet, Two Fold, Rules.

- | | Per Dozen | Each |
|--|---------------|---------------|
| No. 18 Square joint, graduated 8ths and 16ths inches, 1½ inches wide..... | \$1 40 | \$0 13 |
| No. 2 Circle " " 8ths " 16ths " 1½ " " | 1 80 | 20 |
| No. 5 " " bound, " 8ths " 16ths " 1½ " " | 3 60 | 40 |

Pattern Makers' Shrinkage Rules.



We call particular attention to our Nos. 30½ and 31½ Shrinkage Rules, for reason of their general design and appearance, finish, method of graduation and superior style of marking.

These Rules are regularly graduated in 8ths, 10ths, 12ths and 16ths of inches, but will be furnished in 8ths and 16ths only, if so ordered.
 In ordering give number and state extreme length and graduation desired.

- No. **30½** Shrinkage Rule, 1½ inches wide, (lengths as below.) Price, each.....**\$0 75**
 No. **31½** Shrinkage Rule, 1½ inches wide, jointed, two fold (lengths as below.) Price, each..... **90**

Extreme length.....	24 1/8,	24 2/12,	24 2/10,	24 3/16,	24 1/4,	24 3/8,	24 1/2 inches.
Shrinkage, per foot.....	1/16	1/12	1/10	3/32	1/8	3/16	1/4

We Make Special Prices on School Equipments.

"Bailey" Iron Spoke Shaves

The Spoke Shaves in the following List are superior in style, quality and finish to any in market, and are in perfect working order when sent from the factory. They can be hung up, as a hole is made in each Handle.



No. 51

No. 51 Double Iron, Raised Handle, 10 inch, $2\frac{1}{8}$ inch Cutter 20c



No. 52

52 Double Iron, Straight Handle, 10 inch, $2\frac{1}{8}$ inch Cutter 20c



No. 53

53 Adjustable, Raised Handle, 10 inch, $2\frac{1}{8}$ inch Cutter 25c



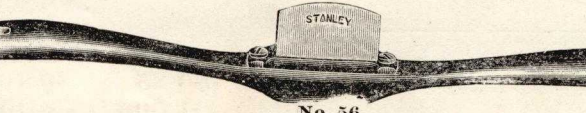
No. 54

54 Adjustable, Straight Handle, 10 inch, $2\frac{1}{8}$ inch Cutter 25c



No. 55

55 Model Double Iron, Hollow Face, 10 inch, $2\frac{1}{8}$ inch Cutter 17c



No. 56

56 Coopers' Spoke Shave, 18 inch, $2\frac{3}{8}$ inch Cutter 39c

56½ Coopers' Spoke Shave (Heavy), 19 inch, 4 inch Cutter 50c



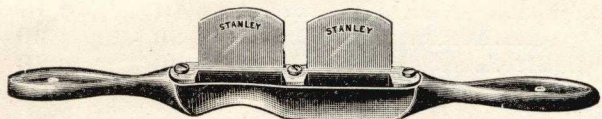
No. 57

57 Coopers' Spoke Shave (Light), 18 inch, $2\frac{1}{8}$ inch Cutter 25c



No. 58

58 Model Double Iron, 10 inch, $2\frac{1}{8}$ inch Cutter 17c



No. 59

59 Single Iron (Pattern of No. 56), 10 inch, $2\frac{1}{8}$ inch Cutter 20c



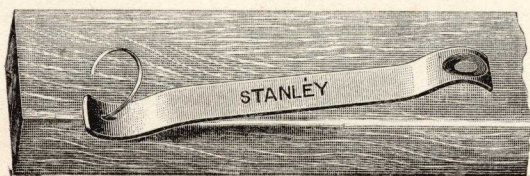
No. 60

60 Double Cutter, Hollow and Straight, 10 inch, $1\frac{1}{2}$ inch Cutter 25c



No. 64

64 Straight Handle, 9 inch, $1\frac{3}{4}$ inch Cutter 12c



Stanley Cornering Tool

Used by all Wood-Workers in rounding sharp edges. The tool is made in two numbers, with a different size Cutter at each end, so sharpened that owner can always cut with the grain without changing position of the work.

It requires no depth gauge as the form of the tool allows it to cut only to a certain depth.

No.	Price Each
28 Cornering Tool, 1-16 and $\frac{1}{8}$ inches each, Flat Steel	25c
29 Cornering Tool, $\frac{1}{4}$ and $\frac{3}{8}$ inches each, Flat Steel	25c

We Make Special Prices on School Work. Send us Your Lists

Adjustable Plumbs and Levels.

- No. 1 Patent Adjustable Mahogany Plumb and Level, Arch Top Plate, Two Side Views, Polished, Assorted, 24 to 30 in.....Price Each **\$0.75**
 2 Patent Adjustable Plumb and Level, Arch Top Plate, Two Brass Lipped Side Views, Polished, Assorted, 24 to 30 in .. " **.77**

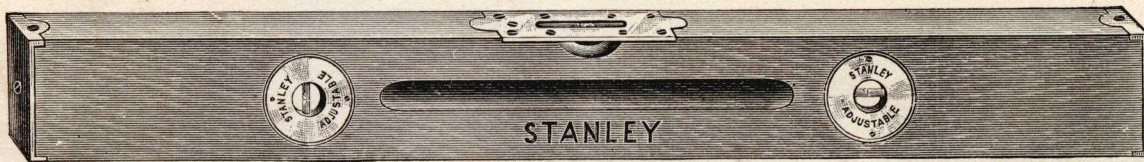


No. 3

- No. 3 Patent Adjustable Plumb and Level, Arch Top Plate, Two Side Views, Polished and Tipped, Assorted, 24 to 30 in....Price Each **\$0.90**
 4 Patent Adjustable Plumb and Level, Arch Top Plate, Two Brass Lipped Side Views, Polished and Tipped, Assorted, 24 to 30 in " **1.10**
 5 Patent Adjustable Plumb and Level, Triple Stock, Arch Top Plate, Two Ornamental Brass Lipped Side Views, Polished and Tipped, Assorted; 24 to 30 in..... " **1.45**
 6 Patent Adjustable Mahogany Plumb and Level, Arch Top Plate, Two Brass Lipped Side Views, Polished, Assorted; 24 to 30 in..... " **1.00**

Duplex Plumbs and Levels.

These Levels have the ordinary form of leveling glass, set in the top surface of the Stock. For any uses where an observation of the glass, *sidewise*, may be found convenient, an additional leveling glass is set in the side, at the opposite end from the Plumb. Both glasses are protected by Brass Discs, can be seen from either side, and are inserted in the Level with the least possible removal of wood from the Stock.



No. 30

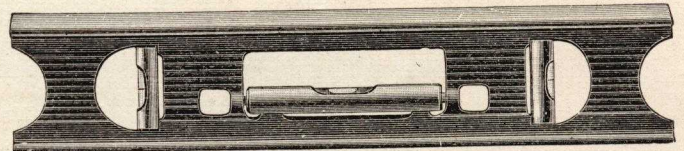
- No. 25 Patent Adjustable Plumb and Level, Mahogany, Arch Top Plate, Improved Duplex Side Views, Polished, Tipped, Assorted, 24 to 30 in.....Price Each **\$2.00**
 30 Patent Adjustable Plumb and Level, Cherry, Arch Top Plate, Improved Duplex Side Views, Polished, Tipped, Assorted; 24 to 30 in..... " **1.50**
 50 Patent Adjustable Plumb and Level, Cherry, Triple Stock, Arch Top Plate, Improved Duplex Side Views, Polished, Tipped, Assorted; 24 to 30 in..... " **2.00**

Metallic Plumbs and Levels.

No. 36

Japanned, Nickel-plated Trimmings, with Proved Glasses, Two Plumbs.

- | | | |
|-------------|------------|---------------|
| 6 inch..... | Price Each | \$0.90 |
| 9 " | " | 1.10 |
| 12 " | " | 1.35 |
| 18 " | " | 1.50 |
| 24 " | " | 1.80 |



No. 36. Style of 12, 18 and 24 inch.

- No. 38½ Iron Level, Nickel-plated, 4 inches long.....Price Each **\$0.40**
 39½ Iron Level, Nickel-plated, 6 inches long..... " **.50**



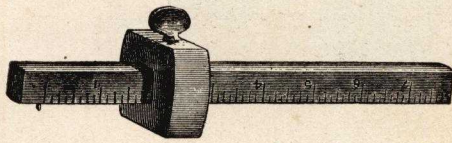
No. 38½ and 39½.

Special Prices Made to Schools on Application.

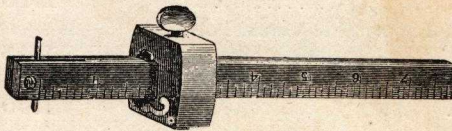
Marking Gauges

All marking Gauges, excepting Nos. 0 and 61, have an Adjusting Point of finely tempered steel, which may be readily removed and replaced if it needs sharpening.

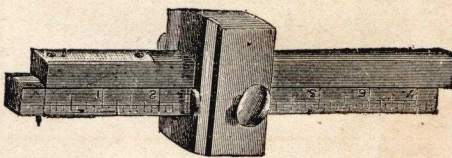
All Gauges with Brass Thumb Screws have also a brass shoe inserted in the head, under the end of the Thumb Screw. This Shoe protects the gauge-bar from being dented by the action of the screw.



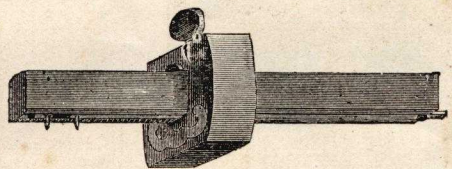
No. 61



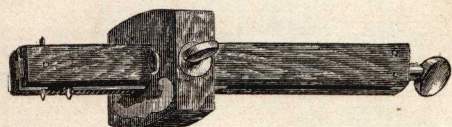
No. 65



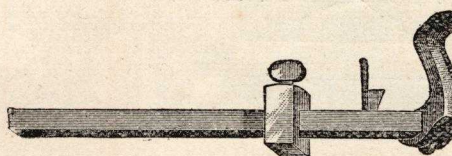
No. 71



No. 73



No. 77



No. 84



No. 85

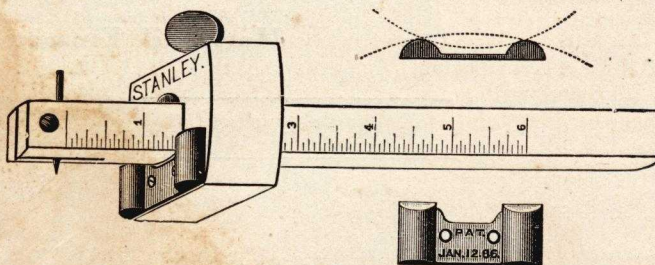
No.		Price Each
0	Marking Gauge, Beechwood, Boxwood Thumb Screw, Marked, Steel Point.....	\$0 05
61	Marking Gauge, Beechwood, Boxwood Thumb Screw, Oval Bar, Marked, Steel Point.....	06
62	Patent Marking Gauge, Beechwood, Polished, Boxwood Thumb Screw, Oval Bar, Marked, Adjusting Steel Point	12
64	Patent Marking Gauge, Polished, Plated Head, Boxwood Thumb Screw, Oval Bar, Marked, Adjusting Steel Point	16
64½	Patent Marking Gauge, Polished, Oval Plated Head, Brass Thumb Screw and Shoe, Oval Bar, Marked, Adjusting Steel Point.....	25
65	Patent Marking Gauge, Boxwood, Polished, Plated Head, Brass Thumb Screw and Shoe, Oval Bar, Marked, Adjusting Steel Point.....	28
68	Mortise Gauge, Plated Head, Adjustable Wood Slide, Brass Thumb Screw and Shoe, Oval Bar, Marked, Steel Points.....	34
70	Cutting Gauge, Mahogany, Polished, Plated Head, Boxwood Thumb Screw, Oval Bar, Marked, Steel Cutter.....	23
71	Patent Double Gauge (Marking and Mortise Gauge combined), Beechwood, Polished, Plated Head and Bars, Brass Thumb Screws and Shoes, Oval Bars, Marked, Steel Points.....	45
72	Patent Double Gauge (Marking and Mortising Gauge combined), Beechwood, Polished, Boxwood Thumb Screws, Oval Bars, Marked, Steel Points.	23
74	Patent Double Gauge (Marking and Mortise Gauge combined), Boxwood, Polished, Full Plated Head and Bars, Brass Thumb Screws and Shoes, Oval Bars, Marked, Steel Points	78
73	Patent Mortise Gauge, Boxwood, Polished, Plated Head, Brass Slide, Brass Thumb Screw and Shoe, Oval Bar, Marked, Steel Points.....	45
76	Patent Mortise Gauge, Boxwood, Polished, Plated Head, Screw Slide, Brass Thumb Screw and Shoe, Oval Bar, Marked, Steel Points.....	67
77	Patent Mortise and Marking Gauge, Rosewood, Plated Head, Improved Screw Slide, Brass Thumb Screw and Shoe, Oval Bar, Marked, Steel Points.....	56
84	Handled Slitting Gauge, with Roller, 17-inch Bar, Marked	56
85	Panel Gauge, Beechwood, Boxwood Thumb Screw, Oval Bar, Steel Points.....	12
85½	Panel Gauge, Rosewood, Plated Head and Bar, Brass Thumb Screw and Shoe, Steel Point.....	1.00

We are Pleased to Quote Special Prices for Complete Equipments on Request.

Stanley Improved Gauges.

The Brass Face, with two ribs attached to one side of the Gauge-head (see engraving), will enable the owner to run a gauge line with perfect steadiness and accuracy around curves of any degree, and either concave or convex. The Gauge-head is reversible, and the flat side can be used for all ordinary work.

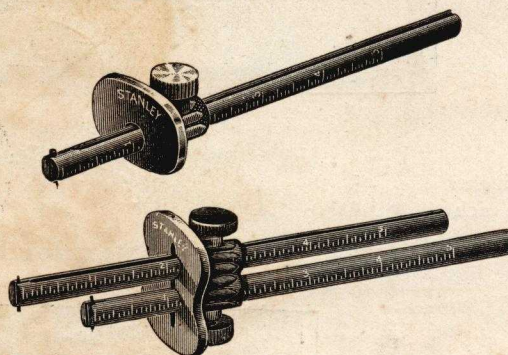
Any style of Gauge found in this Catalogue, page 26—with this valuable improvement included—may be ordered as Nos. 161, 162, etc., instead of Nos. 61, 62, etc. Add 50c per dozen to the price given on the corresponding Gauge—without the improvement—in our regular List of Gauges.



Improved Marking and Mortise Gauges.

The steel points are attached very near the ends of the bars, to admit of being used close up into a rabbet or corner. The head of the Marking Gauge can be turned over, for a broad or narrow bearing, as desired.

- | | | |
|--------|--|--------------|
| No. 90 | Nickel-plated Marking Gauge, one in a box, | each, \$0.30 |
| No. 91 | Nickel-plated Marking and Mortise Gauge, one in a box, | .60 |

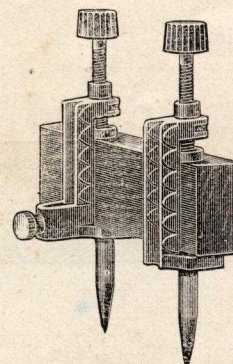


Improved Trammel Points.

These new Trammel Points are so constructed that they can be attached to one side of any straight stick, without exact regard to its size, and are thus quickly adjusted for use.

The peculiar form of the socket makes it possible to use an ordinary-sized pencil, or a full-sized oval-shaped carpenters' pencil.

- | | | |
|-------|---|------------------|
| No. 4 | Nickel-plated, with Steel Points, | per pair, \$0.60 |
|-------|---|------------------|



"Wheeler" Countersink. FOR WOOD.

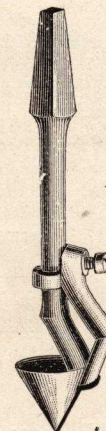
This Countersink works equally well for every variety of screw. The Countersink cuts rapidly, and is easily sharpened by drawing a thin file lengthwise inside of the cutter. By fastening the Gauge at a given point, any number of screws may be driven so as to leave the heads flush with the surface, or at a uniform depth below it.

- | | | |
|--------|-------------------------------------|--------------------|
| No. 18 | Countersinks, | price each, \$0.20 |
| No. 20 | Countersinks, with Gauge, | price each, .30 |

Improved Dowel Sharpener.

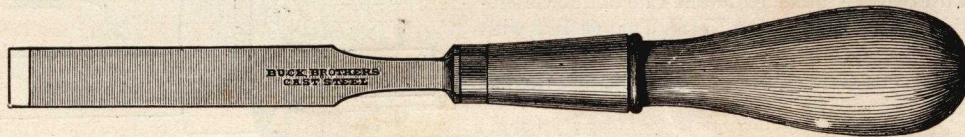
This Tool is the reverse of the Countersink, and can be sharpened with equal ease. By its use Dowel Pins can be sharpened rapidly and uniformly.

- | | | |
|--------|----------------------------|--------------------|
| No. 22 | Dowel Sharpener, | price each, \$0.20 |
|--------|----------------------------|--------------------|
- We Make Special Prices on Complete Outfits. Write us for Prices.



Buck Bros.' Chisels and Gouges.

Handled Firmer Chisels. Sharp and Honed.

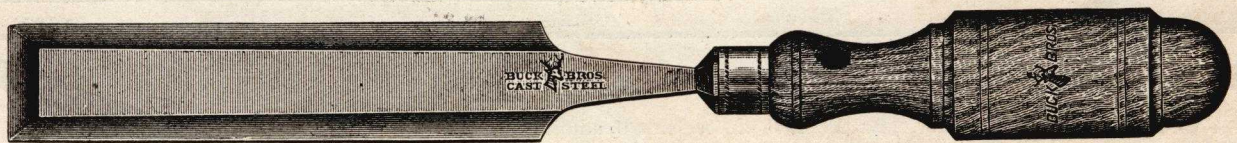


No. 2

The 1-inch Chisel is 5½ inches long from bolster to point.

Size inches....	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	Set of 12
Price each....	\$0.21	.22	.24	.27	.29	.31	.35	.36	.47	.56	.67	.79	4.08

Handled Firmer Chisels. Beveled Edges and Ground Sharp.

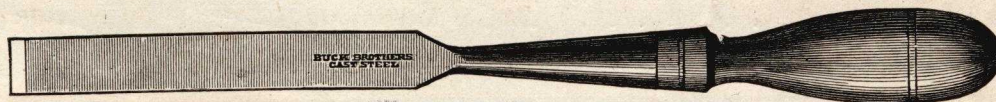


No. 30

The 1-inch Chisel is 5½ inches long from bolster to point.

Size inches....	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	Set of 12
Price each....	\$0.40	.41	.43	.46	.49	.51	.53	.57	.73	.83	1.03	1.16	6.60

Standard Extra Socket Firmer Chisels.

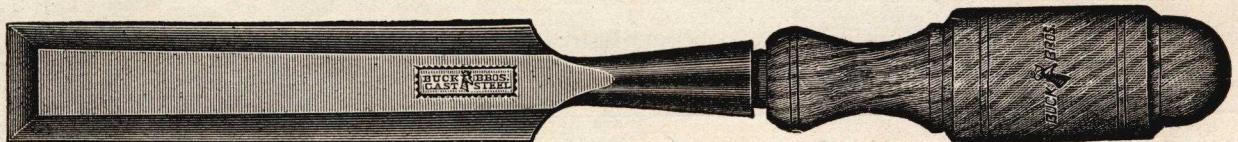


No. 33

The 1-inch Chisel is 5½ inches long in the blade.

Size inches....	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	Set of 12
Price each....	\$0.34	.35	.38	.40	.44	.48	.53	.55	.62	.68	.75	.84	5.10

Standard Extra Socket Firmer Chisels. Beveled Edges.

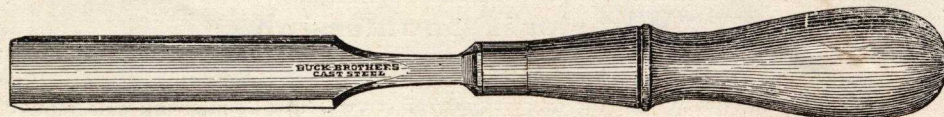


No. 34

The 1-inch Chisel is 6 inches long in the blade.

Size inches....	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	Set of 12
Price each....	\$0.53	.55	.57	.61	.64	.68	.73	.78	.90	.96	1.12	1.22	7.87

Handled Firmer Gouges. Beveled Inside and Ground Sharp.

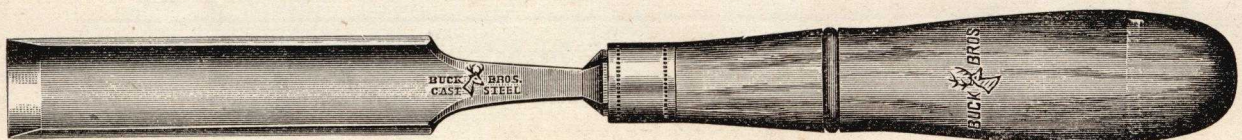


No. 10

The 1-inch Gouge is 5½ inches long from bolster.

Size inches....	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	Set of 12
Price each....	\$0.31	.33	.35	.37	.39	.42	.45	.48	.61	.72	.85	.99	5.53

Handled Firmer Gouges. Beveled Outside and Ground Sharp.



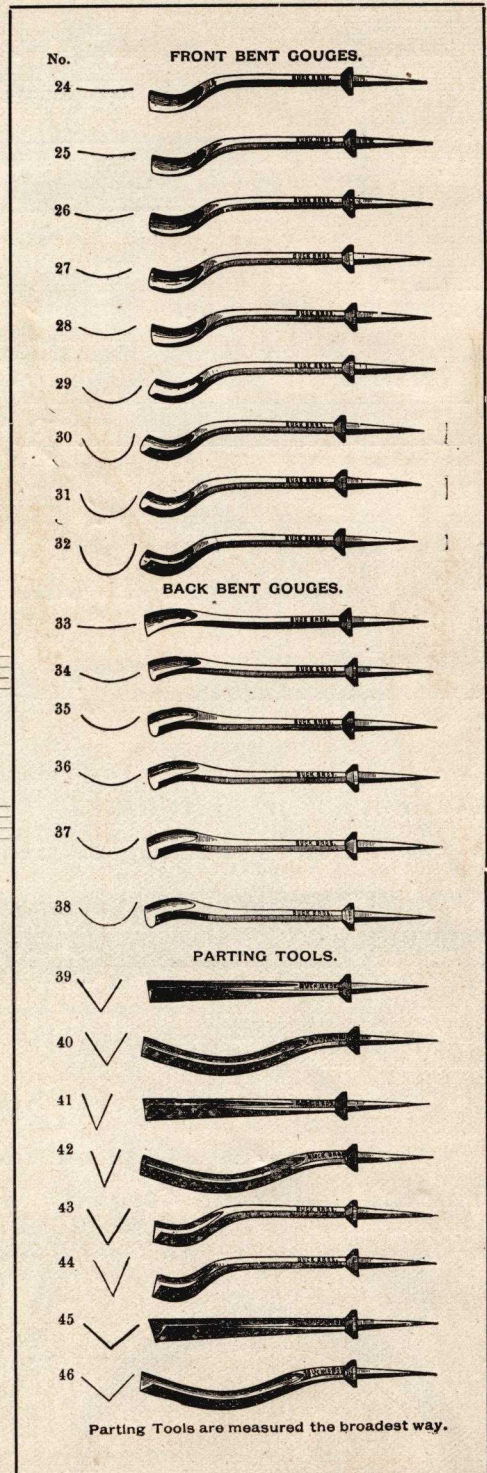
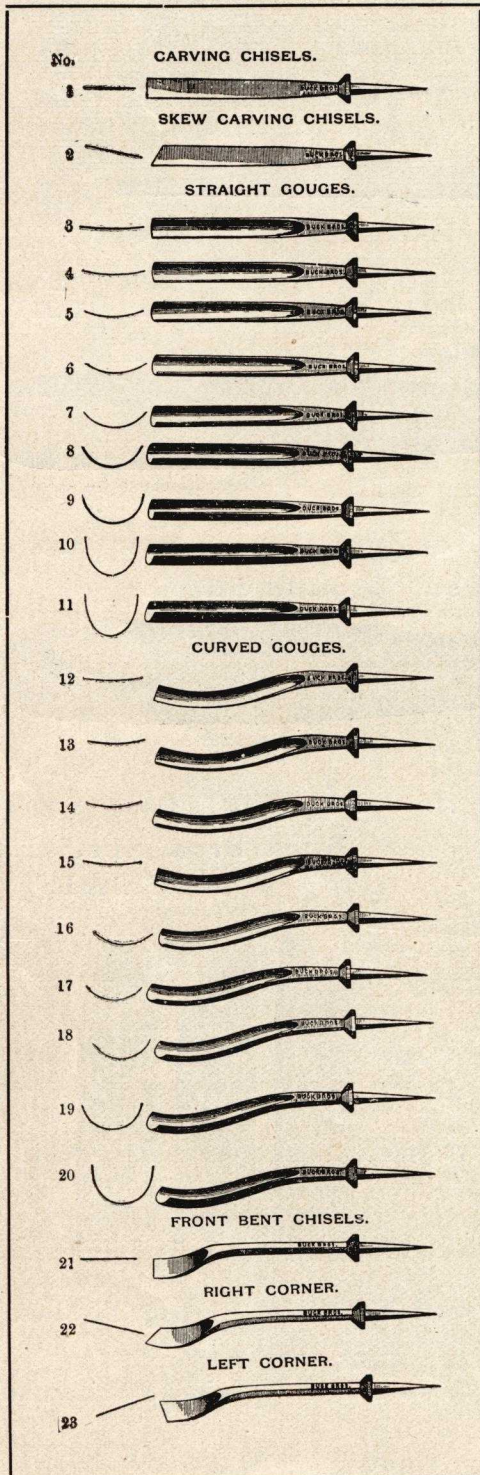
No. 8

The 1-inch Gouge is 5½ inches long from bolster.

Size inches....	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	Set of 12
Price each....	\$0.27	.28	.30	.33	.35	.38	.41	.43	.56	.67	.79	.94	4.93

Buck Bros'. London Style Carving Chisels and Gouges.

HAND FORGED FROM BEST ENGLISH CAST STEEL.

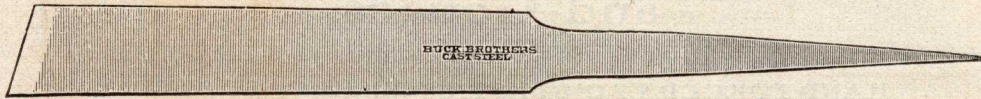


FOR PRICES OF CARVING TOOLS SEE PAGE 31.

We Make Special Prices on School Equipments.

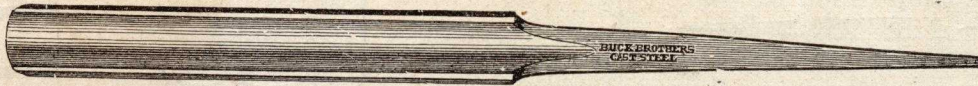
Turning Tools.

Buck Bros.' C. S. Turning Chisels.



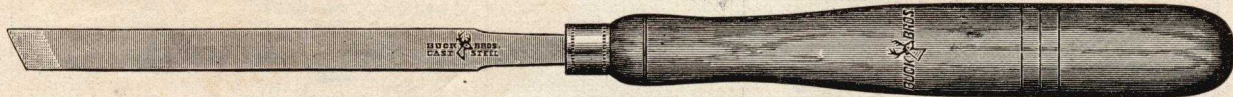
	No. 16.												
Size, inches.....	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	Set of 12
Price each.....	\$.19	.19	.21	.23	.25	.29	.32	.39	.42	.58	.71	.83	4.15

Buck Bros.' C. S. Turning Gouges.



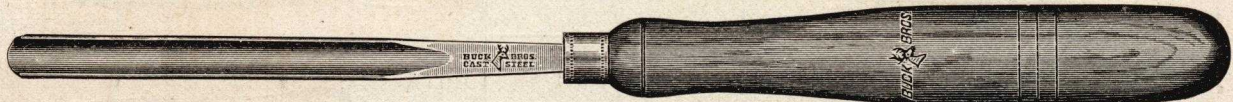
	No. 17.												
Size, inches.....	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	Set of 12.
Price each.....	\$.25	.25	.28	.31	.33	.39	.44	.50	.65	.84	.99	1.21	5.70

Buck Bros.' Handled Turning Chisels. Ground Sharp.



	No. 19.												
Size, inches.....	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	Set of 12.
Price each.....	\$.34	.35	.38	.42	.45	.50	.56	.64	.73	.90	1.08	1.34	6.70

Buck Bros.' Handled Turning Gouges. Ground Sharp.



	No. 20.												
Size, inches.....	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	Set of 12
Price each.....	\$.45	.46	.47	.52	.56	.63	.71	.79	.95	1.18	1.42	1.80	9.75

Wood Turners' Parting or Cutting Off Tools.



No. 18. The 1/2 inch wide measures 8 1/2 inches over all.

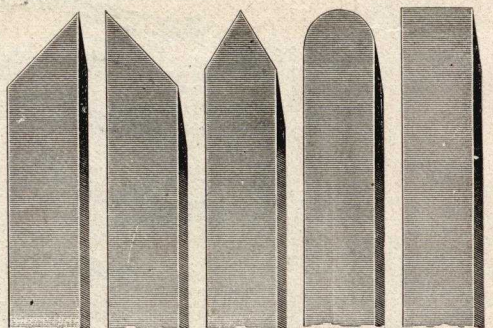
Size, inch.....	1/2	3/8	3/4
Price each.....	\$.38	.42	.46

C. S. Turning Chisels. Special Points.

Size, inches.....	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2
Price each, any style point	\$.25	.25	.27	.29	.31	.35	.38	.43	.52	.65	.77	.90

Handled Turning Chisels. Special Points.

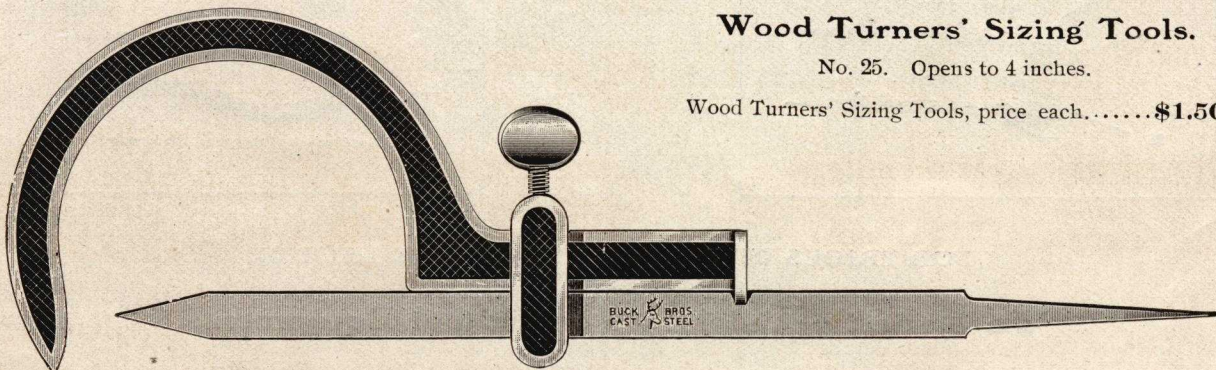
Size, inches.....	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2
Price each, any style point	\$.42	.42	.45	.48	.52	.56	.63	.70	.80	.95	1.15	1.23



Wood Turners' Sizing Tools.

No. 25. Opens to 4 inches.

Wood Turners' Sizing Tools, price each.....\$1.50



Buck Bros. Carving Tools in Sets.

We list below a line of sets of carving tools carried in stock. For description of numbers named in list please refer to page No. 30. The tools are the best Buck Bros. make and are handled and ground sharp. They measure 8 inches over all including handle, and are a convenient size to handle. Sets No. A to F measure 5½ inches in the blade and 10 inches over all, including handle.

Set No. 5 Contains 3 Tools as follows: Price per set **\$1.15**
 1 No. 1 ½ inch Chisel. 1 No. 18 ¼ inch Gouge. 1 No. 44 ⅛ inch Parting Tool.

Set No. 10 Contains 4 Tools as follows: Price per set **\$1.35**
 1 No. 1 ½ inch Chisel. 1 No. 18 ¼ inch Gouge. 1 No. 45 ⅛ inch Parting Tool. 1 No. 2 ⅞ Skew Chisel.

Set No. 15 Contains 6 Tools as follows: Price per set.... **\$2.10**
 1 No. 1 ½ inch Chisel. 1 No. 18 ¼ inch Gouge. 1 No. 45 ⅛ inch Parting Tool. 1 No. 2 ⅞ Skew Chisel.
 1 No. 21 ⅛ inch Front Bent Chisel. 1 No. 11 ⅞ inch Veining Gouge.

Set No. 20 Contains 8 Tools as follows: Price per set **\$2.80**
 1 No. 1 ½ inch Chisel. 1 No. 11 ⅞ inch Veining Gouge.
 1 No. 18 ¼ inch Gouge. 1 No. 2 ⅞ inch Skew Chisel.
 1 No. 45 ⅛ inch Parting Tool. 1 No. 29 ¼ inch Front Bent Gouge.
 1 No. 21 ⅛ inch Front Bent Chisel. 1 No. 1 ⅞ inch Chisel.

Set No. 25 Contains 10 Tools as follows: Price per set..... **\$3.55**
 1 No. 1 ½ inch Chisel. 1 No. 18 ¼ inch Curved Gouge
 1 No. 2 ⅞ inch Chisel. 1 No. 11 ⅞ inch Veining Tool.
 1 No. 21 ⅛ inch Chisel. 1 No. 29 ¼ inch Gouge.
 1 No. 1 ⅞ inch Chisel. 1 No. 40 ⅞ inch Parting Tool.
 1 No. 10 ½ inch Gouge. 1 No. 5 ½ inch Gouge.

Set No. 25 Contains 12 Tools as follows: Price per set..... **\$4.15**
 1 No. 1 ½ inch Chisel. 1 No. 1 ⅞ inch Chisel.
 1 No. 18 ¼ inch Gouge. 1 No. 10 ½ inch Gouge.
 1 No. 2 ⅞ inch Skew Chisel. 1 No. 7 ¾ inch Gouge.
 1 No. 11 ⅞ inch Veining Tool. 1 No. 40 ⅞ inch Parting Tool.
 1 No. 21 ⅛ inch Chisel. 1 No. 5 ½ inch Gouge.
 1 No. 29 ¼ inch Gouge. 1 No. 11 ¼ inch Gouge.

Set A.
 1 No. 1, each..... ⅛, ½
 1 No. 2..... 5/16
 1 No. 4, each..... ½, 1
 1 No. 5..... ¾
 1 No. 8..... ½
 1 No. 11..... 1/16
 1 No. 21..... ⅞
 1 No. 27..... 5/16
 1 No. 39..... 3/16
 1 No. 42..... ¼

Price per Set of 12..... **\$3 65**
 Handled and Sharpened, in a paste-board box..... **5 15**

Set D.
 1 No. 1, each..... 3/16, ⅝
 1 No. 2..... ⅜
 1 No. 5, each..... ½, ¾
 1 No. 7..... ⅜
 1 No. 8..... ¾
 1 No. 11..... 1/16
 1 No. 21..... ¼
 1 No. 28..... ½
 1 No. 41..... ¼
 1 No. 43..... ⅞

Price per Set of 12..... **\$3 50**
 Handled and Sharpened, in a paste-board box..... **5 00**

Set B.
 1 No. 1..... ½
 1 No. 2..... ⅜
 1 No. 3..... 1
 1 No. 5, each..... ⅞, ½
 1 No. 7..... ¼
 1 No. 8..... ¾
 1 No. 11..... ⅞
 1 No. 21..... ¼
 1 No. 31..... 1/16
 1 No. 39..... ¼
 1 No. 44..... 1/16

Price per Set of 12..... **\$3 75**
 Handled and Sharpened, in a paste-board box..... **5 25**

Set E.
 1 No. 1, each..... ⅛, ½
 1 No. 2..... 5/16
 1 No. 4..... ½
 1 No. 5..... 5/16
 1 No. 7..... ¾
 1 No. 8..... ½
 1 No. 11..... 1/16
 1 No. 15..... ¼
 1 No. 21..... 3/16
 1 No. 27..... 5/16
 1 No. 39..... 3/16

Price per Set of 12..... **\$3 40**
 Handled and Sharpened, in a paste-board box..... **4 90**

Set C.
 1 No. 1, each..... ¼, ¾
 1 No. 2..... ⅜
 1 No. 5, each..... ⅞, ¾, ¾
 1 No. 8, each..... ½, ¾
 1 No. 11..... 1/16
 1 No. 18..... ⅜
 1 No. 26..... ⅜
 1 No. 39..... ¼

Price per Set of 12..... **\$3 50**
 Handled and Sharpened, in a paste-board box..... **5 00**

Set F.
 1 No. 1, each..... ⅛, ⅜, ⅞
 1 No. 2..... ½
 1 No. 3..... ¾
 1 No. 4..... ½
 1 No. 6..... ⅜
 1 No. 8..... ½
 1 No. 11, each..... 3/32, 5/16
 1 No. 21..... ⅜
 1 No. 39..... ⅜

Price per Set of 12..... **\$3 45**
 Handled and Sharpened, in a paste-board box..... **4 95**

We make special prices on School Equipments.

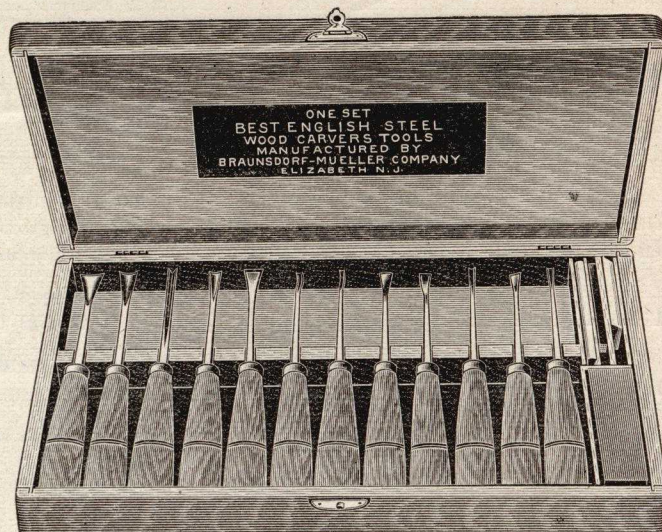
Carving Tool Sets.

Set No. 1 contains Twelve Assorted Carving Tools, handled and sharpened ready for use, Two Arkansas Oil Slips, One India Oil Stone, One Marking Punch, and One Book of Instructions.

Price per Set complete..... \$6 00

Set No. 2 contains Six Assorted Carving Tools, handled and sharpened ready for use, Two Arkansas Oil Slips, One India Oil Stone, One Marking Punch, and One Book of Instructions.

Price per Set complete.....\$4 25



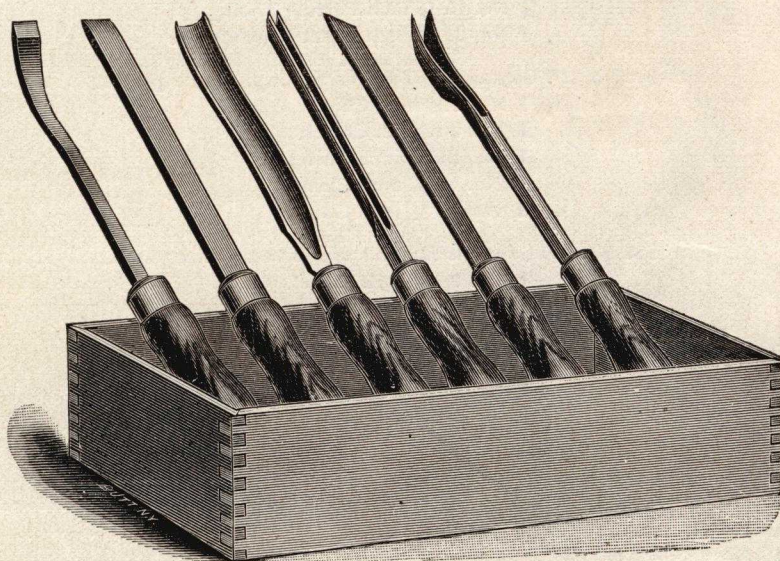
Carving Tool Sets Nos. 1 and 2.

Carving Tool Sets.

The accompanying Illustration shows a Set of Carving Tools of a less expensive kind. These Tools are intended for beginners in wood carving and for school work. These Tools are forged from the best quality steel, and are fully warranted. They have cocobola handles and are sharpened ready for use. The Tools in Set No. 3 measure 5½ inches over all, and the No. 4 8½ inches over all.

Set No. 3 Six Tools..... per set, \$0 90

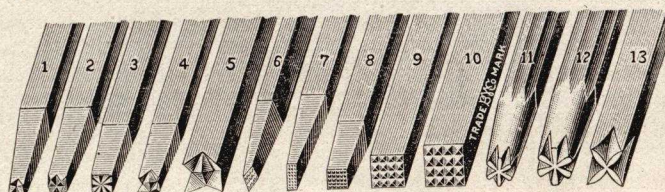
Set No. 4 Six Tools.....per set, 1 35



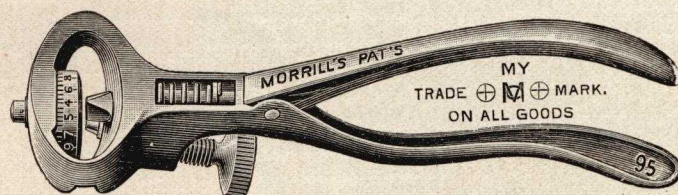
Wood Carvers' Marking Punches.

These Marking Punches are made of fine tool steel, nicely finished and tempered.

Price each, any number.....\$0 20



Morrill's No. 95 Sawset. THE MASTER-PIECE.

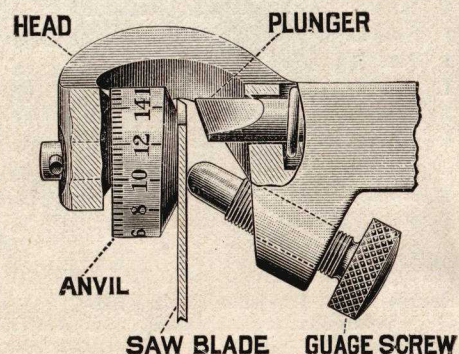


The revolving anvil with indicator sub-divided and marked with figures, the figures showing the number of teeth to the inch in the saw to be set. For example, if the saw has four teeth to the inch, turn the anvil until the figure 4 comes up directly in front of the plunger, and so on.

No. 95 Morrill Sawset..... price each, \$0 75

Detailed Sectional View of the Principal Mechanism.

Leave the gauge screw so that the saw will pass through without friction. When you wish to do fine work, turn the gauge screw back to suit your own judgment, otherwise it will be all right for use in ordinary work.

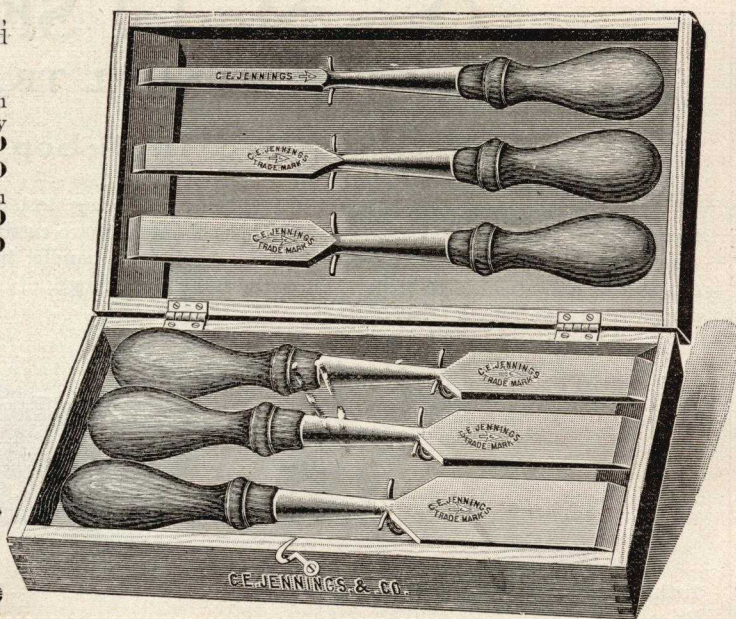
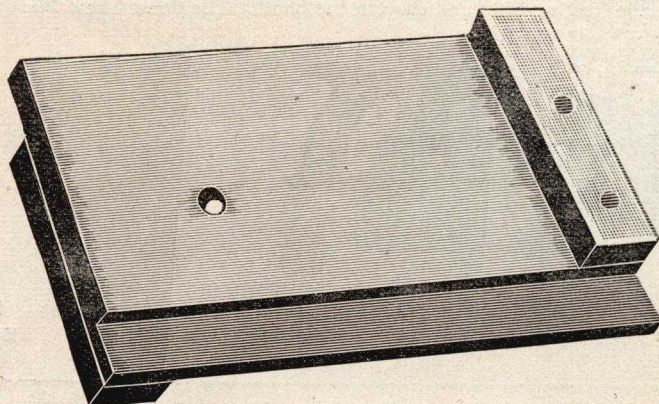


Special Short Manual Training Chisel.

These Chisels are designed especially for Manual Training Work, where a short chisel is required. The blades are $3\frac{3}{4}$ inches long, and measure about 10 inches overall.

PRICE LIST.

- Set No. 1 Consists of six Chisels one each $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$ and $1\frac{1}{2}$ inch with Cocobola Handles in either Canvas Roll or Fancy Hinged Box.....Price per set **\$2 70**
- Set No. 2 Same as set No. 1 with Beveled Edge Chisels. " **3 00**
- Set No. 3 Consists of six Chisels one each $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, and $1\frac{1}{2}$ inch with Hickory Handles in Hinged Box...Price per set **\$2 40**
- Set No. 4 Same as set No. 3 with Beveled Edge Chisels. " **2 70**



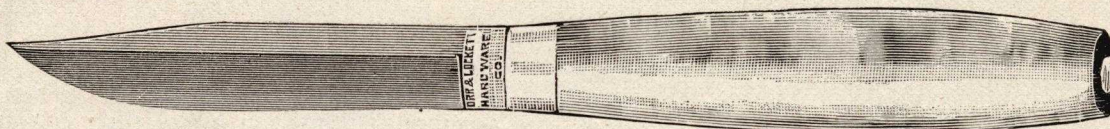
Wood Bench Hook.

Maple Bench HookPrice each **\$0 25**



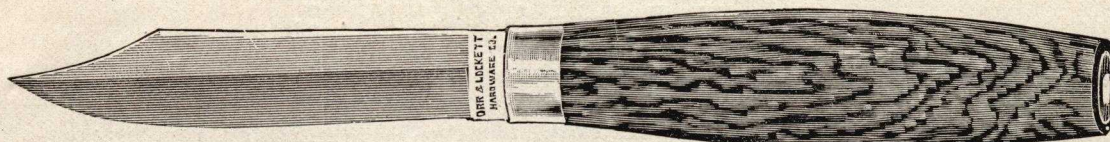
Henckel's Chip Carving Knife.

No. 50 Henckel's Chip Carving Knife, full size cut.....Price each **\$0 25**

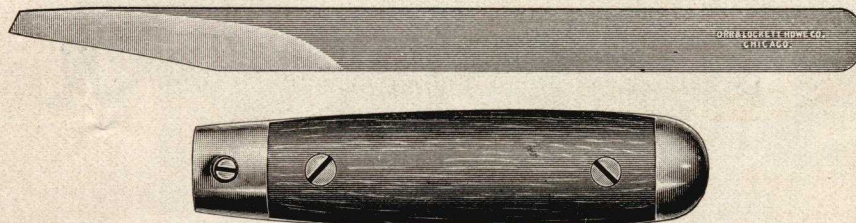


Orr & Lockett's Swedish Sloyd Knife.

No. 1 Orr & Lockett's Swedish Sloyd Knife, full size cut.....Price each **\$0 20**



No. 2 Orr & Lockett's Sloyd Knife, full size cut.....Price each **\$0 35**



Pattern Makers' Knife.

Orr & Lockett Pattern Makers' Knives with Rosewood Handle complete with one blade.....Price each **\$0 95**

Extra Blades $\frac{1}{2}$ x 7 inch..... " **20**

Our Model Skew Back Saw FOR MANUAL TRAINING SCHOOLS.

Geo. H. Bishop & Co. No. 90.

Hand-made Hand Saws. Extra refined American spring steel, selected blade, highly finished, perfect temper, full skew back, full taper ground (thin back). Easy to file and will retain sharp-cutting points longer than other saws. Hand full-beveled filed teeth to a diamond point. Fast cutting, ready for use. Applewood handle, highly finished and carved, with five nickel screws. Handle is so constructed and attached to blade to allow the full cutting length of blade, resting light and easy in the hand. The finest Skew Back Saw made. Fully warranted.



Inches.....	16	18	20	22	24	26
Price, each.....	\$1 25	1 35	1 50	1 65	1 75	2 00

Geo. H. Bishop & Co. No. 89.

Hand-made Hand Saws. Extra refined American spring steel, selected blade, highly finished, full taper ground (thin back), perfect temper. Easy to file and will retain sharp-cutting points longer than other saws. Hand full-beveled filed to diamond-point teeth. Fast cutting, ready for use. Applewood handle, highly finished and carved, with four brass screws. Fully warranted, quality and workmanship same as our other high-grade Saws. Straight back.



Inches.....	16	18	20	22	24	26
Price, each.....	\$1 20	1 30	1 40	1 55	1 65	1 75

Geo. H. Bishop & Co. No. 7.

Hand-made Hand Saws. Extra refined American cast steel, straight back, highly polished, selected blade, full width, full taper ground (thin back), temper perfect. Hand filed teeth to diamond point. Fast cutting, ready for use. Beechwood handle, polished edges, four brass screws. This Saw is established and quality too well known for further comment. Straight (thin) back.

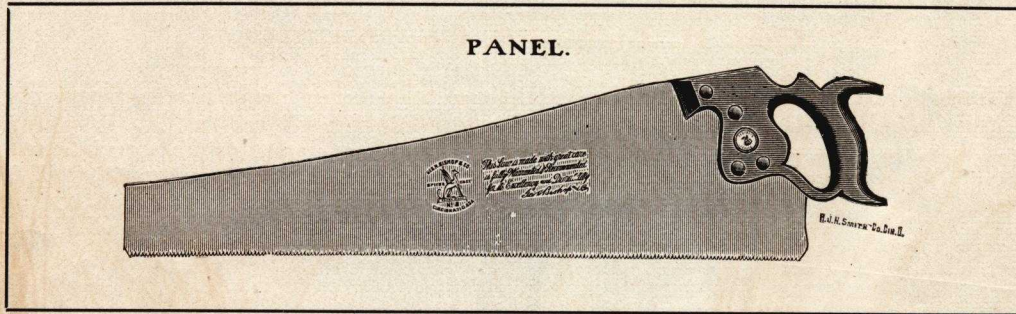


Inches.....	14	16	18	20	22	24	26
Price, each.....	\$0 75	0 90	1 00	1 05	1 10	1 15	1 25

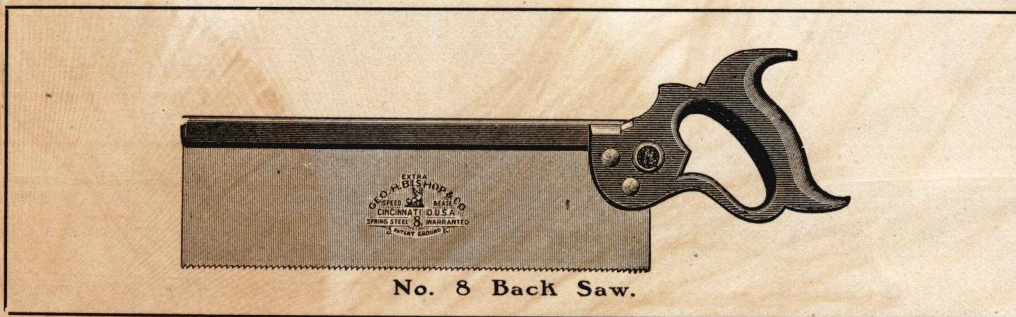
We Make Special Prices on School Equipments.

Geo. H. Bishop & Co. No. 8 Hand Saw.

No. 8 Hand-made Hand Saws. Extra Refined American Spring Steel, Selected Highly Polished Blades, Full Skew Back, Full Taper Ground (Thin Back), Perfect Temper. Easy to File, and will retain Sharp-cutting Points longer than other Saws. Hand Full Beveled Filed to Diamond Point. Fast Cutting, ready for use. Applewood Handle with Polished Edges, Five Brass Screws. We recommend and warrant this Saw in every way. Skew Thin Back, Fast Cutting.

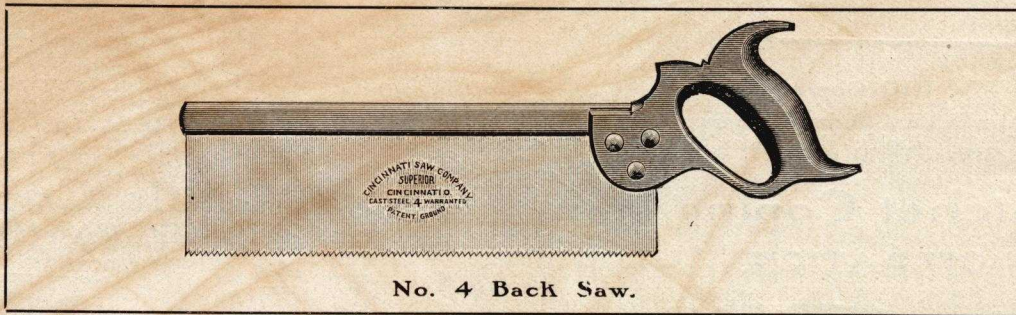


Length of Blade, inches.....	16	18	20	22	24	26	28
Price each.....	\$0 97	\$1 08	\$1 17	\$1 31	\$1 40	\$1 48	\$1 67



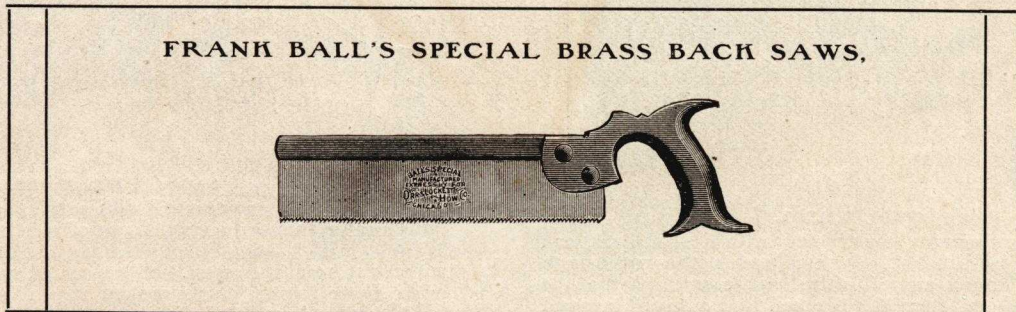
No. 8 Geo. H. Bishop & Co. Back Saw, Apple Handle, Polished Edge, Blued Back, Extra Quality, Hand Filed and Set ready for use, Spring Steel Etched Blade.

Length of Saw Blade, inches.....	8	10	12	14	16	18
Price each.....	\$0 87	\$0 94	\$1 07	\$1 20	\$1 34	\$1 47



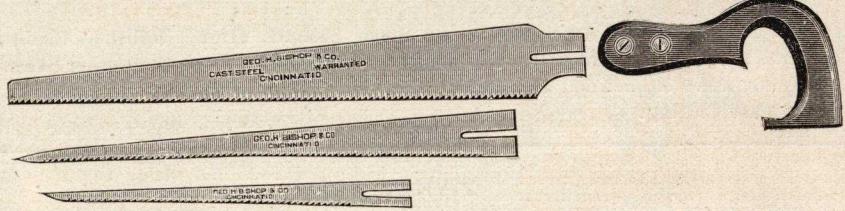
No. 4 (Cincinnati) Beech Handle Back Saw, Polished Edges, Blued Back, Filed and Set ready for use, Cast Steel Etched Blade, Warranted good serviceable Saw.

Length of Saw Blade, inches.....	8	10	12	14	16	18
Price each.....	\$0 60	\$0 67	\$0 80	\$0 94	\$1 07	\$1 20



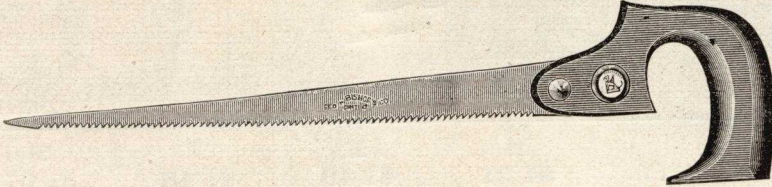
1½ inches under Back, Back, 5/16 inches thick; Length of Blade, 8 inches; Weight, 6½ ounces. Price each.....\$0 87

Bishop's No. 12. Nest of Saws, Beech Handle, Polished Edges. Warranted.



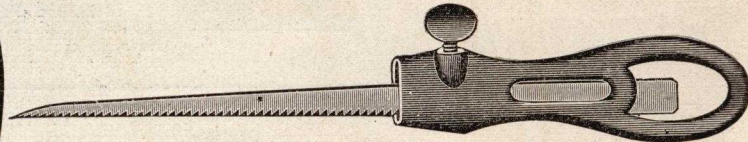
No. 12. Bishop Nest of Saws with three blades. Price per set.....\$0.75

No. 2. Geo. H. Bishop & Co's Spring Steel Compass Saw. Hand filed and set, apple or cherry handle, warranted, thin back. Best made.

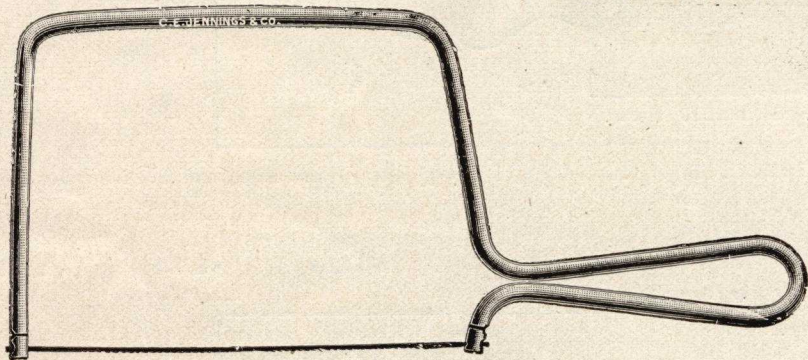


Length of Blade, inches.....	10	12	14	16	18
Price each.....	30	30	35	35	40

No. 14. McNiece Patent Keyhole Saw and Pad.



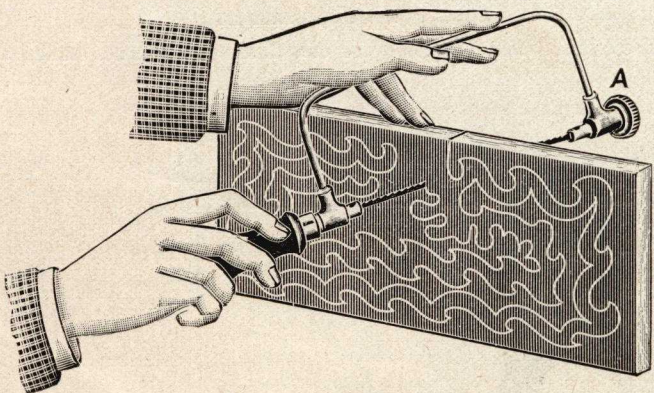
No. 14. Patent Keyhole Saw and Pad. Price each.....\$0.20
Extra Blade. Price each.....13



No. 100 Coping Saw.

No. 100. Coping Saws with 1 doz. blades, 4 inch deep. Price each....\$0.25
No. 160. Coping or Scroll Saw with 1 doz. blades, 8 inch deep. Price ea..30

Jones' Ratchet Coping Saw IN OPERATION.

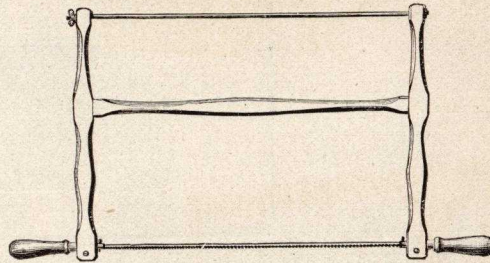


Patented Nov. 5, 1901.

The Jones Ratchet Frame is constructed with a steel back and Ratchet arrangement (see illustration) which enables the workman to quickly set the blade at any angle by the handle and button at the other end of saw frame (see letter A). Packed in cardboard box and furnished complete with six blades. The frame is 4 inches deep.

Price each.....\$0.50

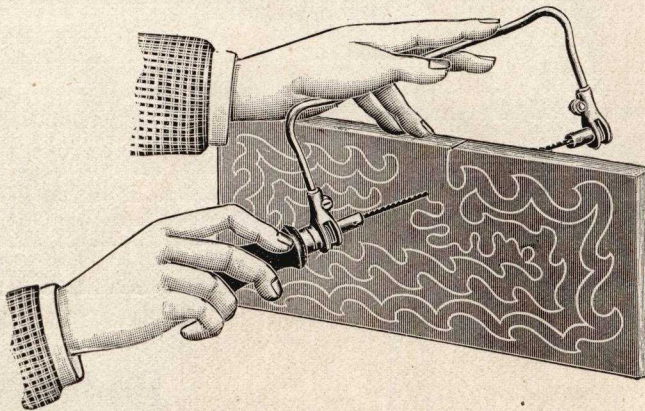
Turning Saw Frames and Blades.



This frame is made of Birchwood, with ebonized handles. There is an index on each handle, to show the operator just how far to turn each. The friction is regulated by screws. It is quite superior to most other kinds in the market.

14-inch Frame, with blade complete.....
Price each.....\$0.90
18-inch Frame, with blade complete.....
Price each.....90
14-inch Blades. Price each.....12
18-inch Blades. Price each.....15

Jones' Cable Coping Saw IN OPERATION.

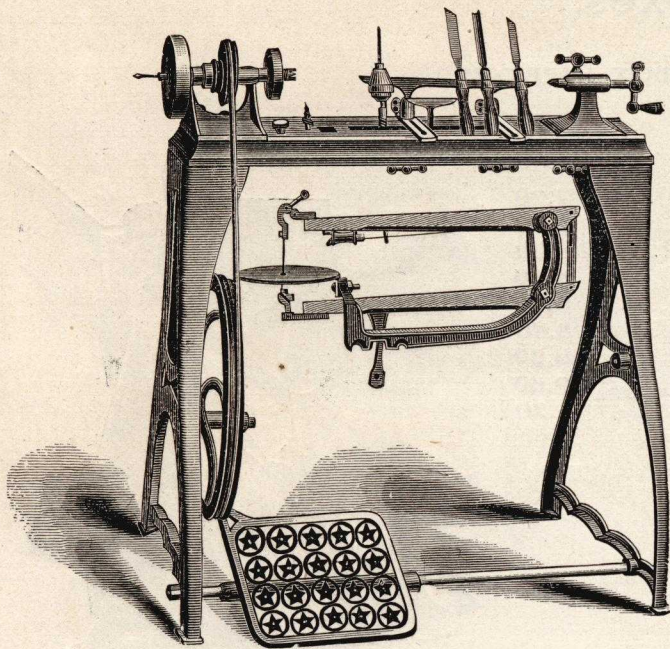


Patented Feb. 8, 1898.

This saw is constructed with a tubular back, through which runs a cable connecting both ends of saw frame, which causes the blade to run to any angle by turning the handle only, without removing it from the work. Nickel-plated and furnished complete with one-half dozen blades packed in cardboard box. The frame is 3 1/2 inches deep. Price each.....\$1.00

We also furnish this same saw with a frame 10 inches deep.
Price each.....125

Goodell Lathe and Saw Attachments.



This lathe is patterned almost exactly after the latest improved lathes now used in the best machine-shops and pattern-makers' rooms. The large driving wheel has two grooves, of varying depths, on its face, to give a change of speed, as the belt runs from it to the cone pulley on the lathe head. The lathe head is provided with a two-inch face-plate, a spur center, a screw center for turning cups, and also with a very nice drill chuck to hold from 1-32 to 1-4 inch round twist drills for drilling wood or iron. It also has on the outer side of the pulley a 4 1/2 x 7/8 inch solid emery wheel and a drill spindle, with set screw, to hold drill points for wood drilling. The tail-stock has a screw-feed center, which is secured at any point desired by a clamping arrangement like that on the modern engine lathes. It is also provided with a long and short tool rest, five turning tools, wrench drill points, etc., etc. Swing of lathe, 5 inches. Length of bed, 24 inches. Distance between centers, 13 1/2 inches.

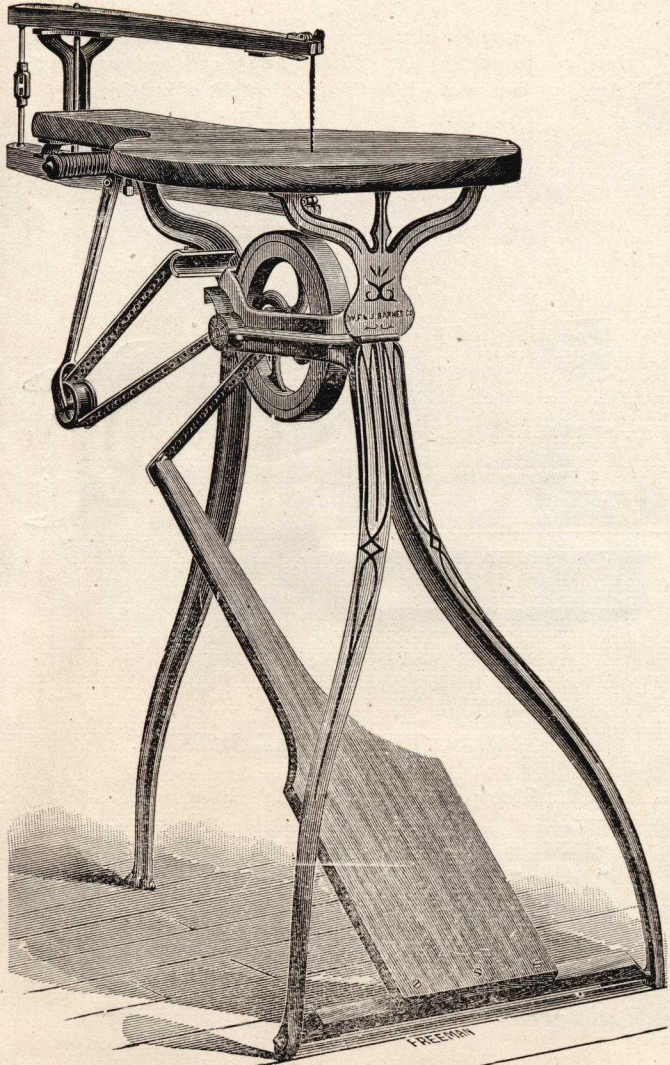
The Scroll Sawing attachment, as shown in the cut, is secured to the lathe bed by one bolt, and can be put on or off at pleasure. This attachment has all of the improvements found in any of our scroll saws.

This lathe is thoroughly built and highly finished, the polished parts being nickel-plated. Weight, 56 lbs.

Price of Lathe and Lathe Tools.....	\$10.00
" Scroll Saw Attachment.....	2.00
" Circular Saw Attachment.....	1.00

Barnes Scroll Saw No. 7.

Price, \$12.00



This machine is designed for practical service in the workshops of carpenters and builders, cabinet makers and other wood workers.

WARRANTY.

We warrant it to be well made, of good material and workmanship, and with reasonable practice to saw at the following rates: Pine, 2 inches thick, 1 foot per minute; 1 inch thick, 4 feet per minute; wa'nut, 3 inches thick, 1/2 foot per minute; 1 inch thick, 2 feet per minute; and other woods and thicknesses at proportionate rates.

The ordinary rate of speed when sawing is from 800 to 1200 strokes per minute. The saw leaves the work as smooth as it is possible for any saw to do, and can be taken out and replaced in an instant for inside work.

The swing around the blade, under the arm, is 24 inches.

The length of the blade is 7 inches.

The table and arms are made of hard maple.

The frame is made of cast iron, strong, yet light.

The balance wheel runs on a steel arbor.

The machine weighs 55 pounds.

Boxed for shipment, 80 pounds,

We include one dozen blades with each machine.

No. 7 Barnes Scroll Saw.

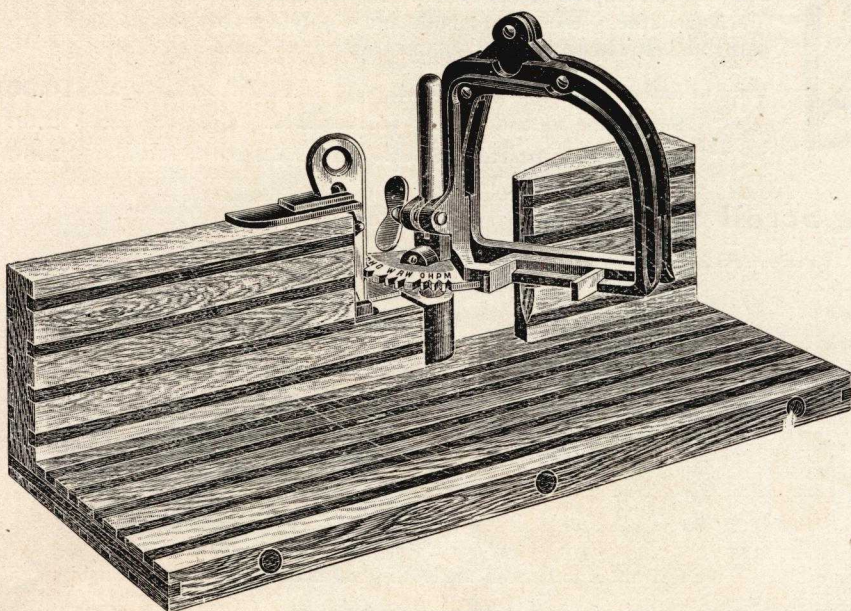
Mitre Boxes.

NEW LANGDON MITRE BOX IMPROVED.

Order by the Number.

No. 26 is Size 1, with No. 6 Saw, for wood, 18 x 4.....	\$ 7.20
" 27 " " " " " 20 x 4.....	7.60
" 28 " " " " " 22 x 4.....	8.00
" 29 " " " " " 24 x 4.....	8.40
" 30 " " " " " 26 x 4.....	8.80
" 31 is Size 2, " " " " 22 x 4.....	8.80
" 32 " " " " " 24 x 4.....	9.20
" 33 " " " " " 26 x 4.....	9.60
" " " " " 28 x 5.....	11.20

THE PERFECTION MITRE BOX.



STAR MITRE BOX.

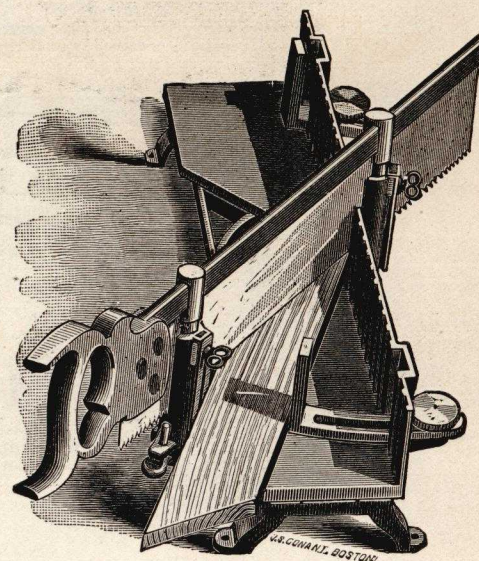
It is adjustable at once to the various required angles, and being provided with a double shelf or rest, will cut either a right or left angle with equal ease.

It is made entirely of iron and steel, japanned, with bright parts polished and nickel-plated.

It is very compact, and for outside work, cornices, etc., will be found very convenient; also for cutting wall mouldings for hanging pictures.

Either a panel or back saw can be used and any depth moulding can be cut.

Price, each.....\$2.00

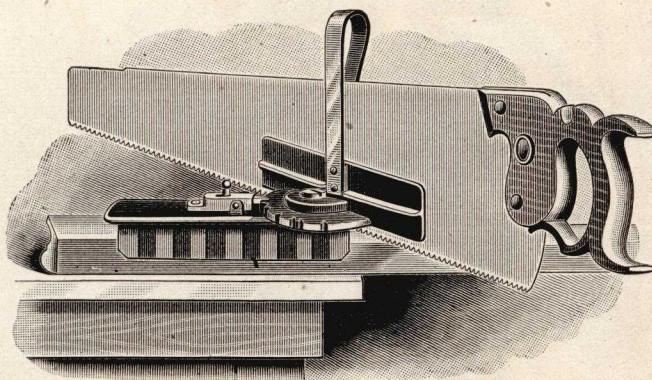


THE PERFECTION MITRE BOX.

The Perfection Mitre Box is a light, accurate, convenient box, can be set instantly to cut any angle and any depth. Any saw can be used as the saw guide is adjustable.

Price each.....\$2.50

THE STAR MITRE BOX.

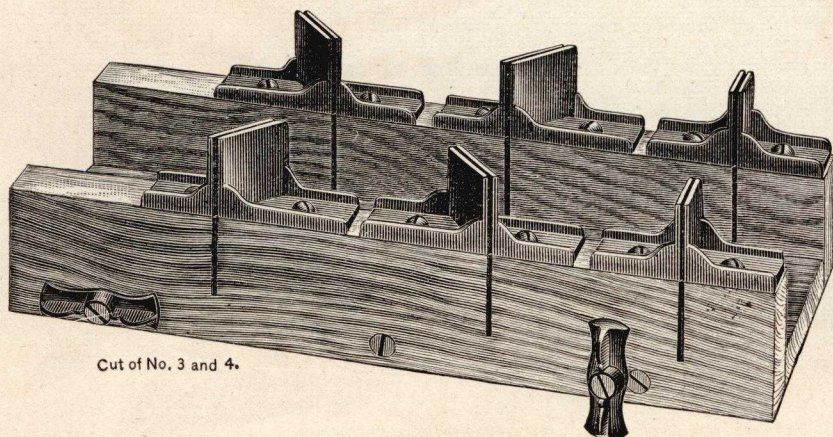


OLMSTED MITRE BOXES.

No. 1 will saw moulding 1½ x 3 in.	Price each....\$.85
" 2 " " 2½ x 4 " " "	1.23
" 3 " " 1½ x 3 " " "	1.07
" 4 " " 2½ x 4 " " "	1.50

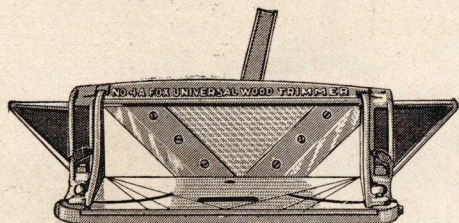
Nos. 1 and 2 Mitre Box have only one guide at the square cut.

The cut shows Nos. 3 and 4 Olmsted Mitre Box.

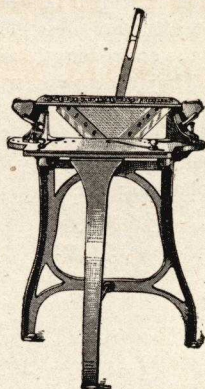


Cut of No. 3 and 4.

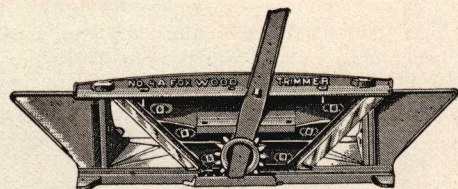
Fox Universal Trimmers



No. 4A—Rear View. The springs shown bring the gauges back for the square cut. Gauges have solid support their full height.



No. 4E

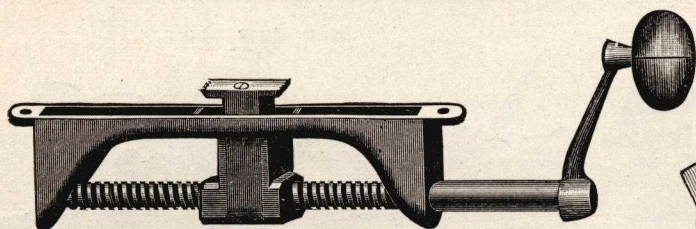


No. 4A—Front View. The popular size for pattern makers' individual bench use.

Price List Fox Universal Wood Trimmers.

The No. of the Machine is Height of Cut in Inches.	Cut Long, Inches.	Size Bed, Inches.	Between Gauges Inches.	Length of Stroke, Inches.	Price	Extra Knives, Per Set.
2 A	4½	4½ x 10½	8¼	5	\$16 00	\$3 20
4 A	8	7½ x 17½	14	9	24 00	4 80
5 A	8¼	9½ x 20	16½	8½	32 00	5 60
6 A	12½	11½ x 27½	22	13½	46 40	7 20
3 B	6	6 x 15	12	6½	20 00	4 80
4 B	8	8 x 20	16¼	8½	25 60	5 60
4 E	9¼	13 x 29¼	17½	9½	50 40	5 60
6 E	12½	18 x 39½	24½	13½	72 00	8 00
6 F	19	18 x 35	19	27	88 00	8 00
8 F	24½	24 x 40	24½	32	112 00	12 00

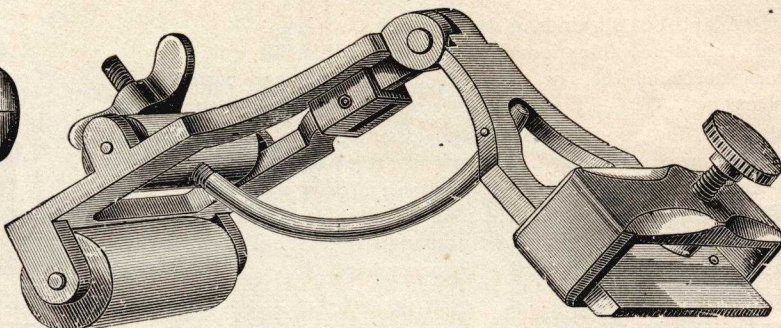
The Improved Carpenter's Tail Screw and Bench Dog.



The construction of this screw is such that it can be attached to any bench ready for use in ten minutes. It is made of cast iron, malleable and steel, finely finished and full nickel plated. The carriage has a 9-inch play back and forth in frame. The tooth plate can be raised to any desirable height up to two inches, or made flush with bench top. It will not get out of order.

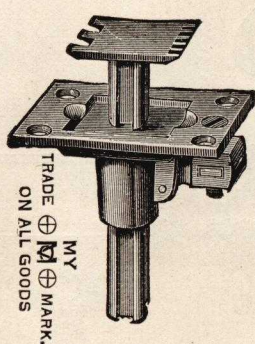
Price, each.....\$2.00

Chisel Grinder.

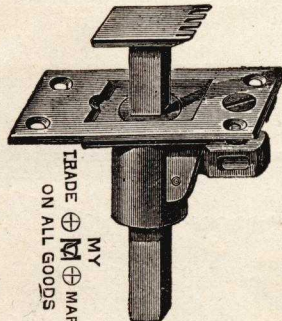


This invention is for holding chisels, plane irons, etc., while grinding them. When put in the holder and brought in the right bevel with the adjusting screw, nothing is left to do but bear it on the stone, and it will grind all right without further care.

Price, each \$0 68



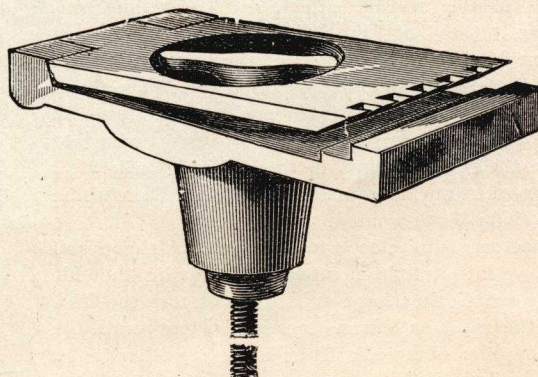
No. 2



No. 1

Morrill Bench Stops.

No. 1 Morrill Bench Stop, small size. Per dozen	\$5 50
Each	50
No. 2 Morrill Bench Stop, large size.....	6 60
Each	60



Western Patent Bench Stop.

No. 2 Western Patent Bench Stop. Per dozen.....	\$3 50
Each	35

We Make Special Prices on School Equipments.

Wentworth's Patent Noiseless Saw Vises.

The Wentworth Vise is made with a flexible Rubber Cushion or Muffler between the Jaws, which effectually prevents all vibration and renders saw filing noiseless. The Jaws are planed slightly concave, producing an equal bearing the entire length, and are made to open and close by simply turning the Cam Lever. They are strong, well proportioned and handsomely finished. Nos. 1 and 2 Vises can be easily screwed to a work bench or any place desired. No. 3 Vise has a Malleable Iron Screw Clamp for attaching it to a work bench, and by turning a Thumb Nut can be tilted to any desired angle; also can be easily detached and carried about from place to place.

No. 1—11 inch Jaws.....	Price each	\$1.00
No. 2—15 " "	" "	1.25
No. 3—11 " "	" "	1.25

The Wilson Saw Filer.

In presenting this Saw Filer to the trade allow us to call your attention to its various merits:

It overcomes successfully the difficulties nearly every one encounters in filing a saw.

With the aid of this tool an inexperienced as well as an experienced person can file a saw correctly; keeping the teeth the same as when new, every tooth being kept the same pitch and bevel, it being impossible to change its position without readjusting the filer. By means of a pointer and index the same angle and bevel is obtained on both sides of the saw.

This filer can be used with wood clamp in any ordinary vise or with iron saw clamp.

By following the directions accompanying it the filer can be easily and successfully operated by any one.

Price each complete with wood clamp..... **\$1.25**

Elkin's Saw Sharpener.

Adapted to all kinds of Saws except Circular.

This is a combination of clamps and adjustable guides by means of which the saw can be firmly clamped and correctly sharpened. The adjustable guides can be so marked as to give the tooth the same bevel pitch and elevation. By so doing the file at once commences its work directly upon the face or cut of the tooth, this saving the usual waste of saw, file and time. The machine is very simple, strong and durable in its construction, being made from the best iron and steel. It only occupies a space in inches of 16x3x3. Price each..... **\$2.50**

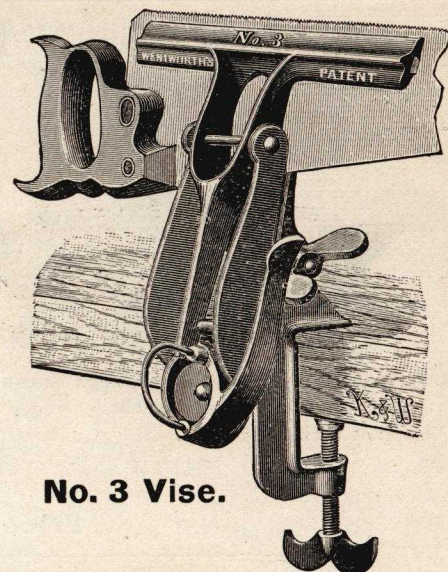
Disston's Saw Filing Guide.

This cut shows a saw and the attachment in proper position for filing the first side. There are three marks on one of the hubs of the swivel attachment, and one mark on the other. One of the three marks shows when it is in position for first side and the other designates when it is in position for filing the other side. The third, or centre mark shows when it is in position for filing Rip saws. To obtain the correct position loosen the wing nut and move the guide around to the point desired; after tightening wing nut, loosen screw in file handle until file gives the shape tooth wanted.

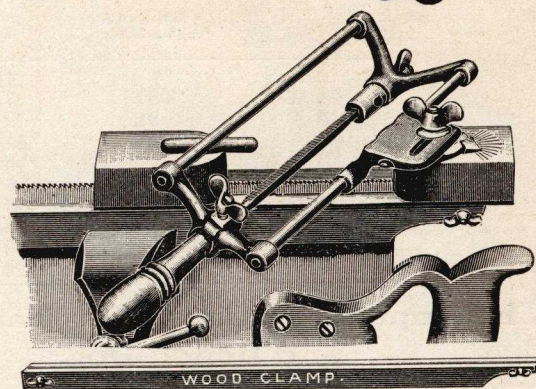
A good way is to select a tooth of correct shape and let file down into it, tighten set-screw in handle, then file a tooth to see if the shape suits. If not, turn the file a little to the right or left and try another tooth until the proper shape is obtained. Then file every other tooth. When one side is filed, reverse saw and attachment and file the other teeth. For Rip Saws, place the file at right angles with the saw, and file every tooth. Always keep the file as nearly horizontal as possible.

This guide is sold only attached to our No 3 Clamp and price includes Clamp, Filing Guide, File and Handle.

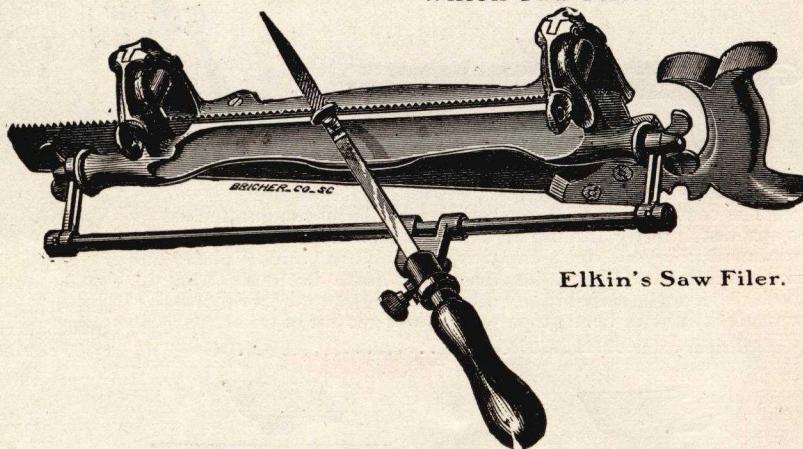
Complete in wooden box.....Price each **\$2.00**



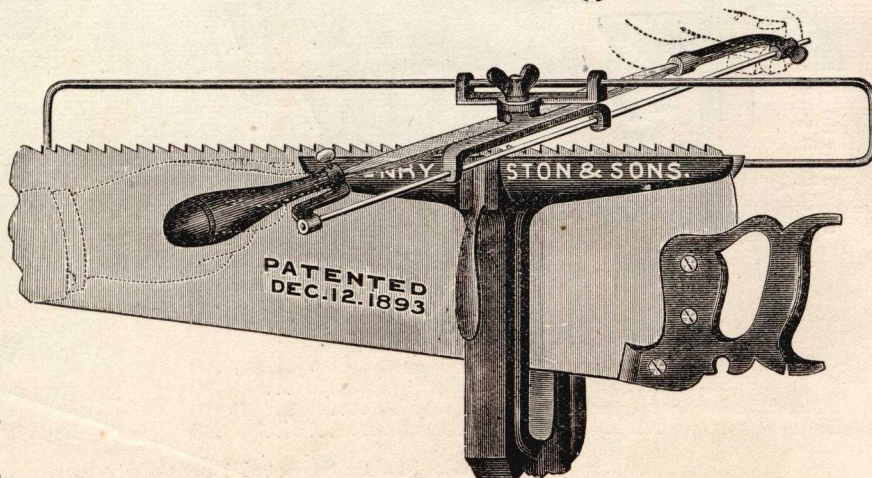
No. 3 Vise.



Wilson Saw Filer.



Elkin's Saw Filer.



BRACES

Barber Improved Braces.

These Braces possess the following points of superiority: The sweep is made from steel. The jaws are forged from steel. The wood handles have brass rings inserted in each end so it cannot split off. The chuck has a hardened steel anti-friction washer between the two sockets, thus reducing the wear.

The head has a bearing of steel balls, running on hardened steel plates, so no wear can take place, as the friction is reduced to the minimum. The Brace is heavily nickel plated and warranted in every particular.

We endeavor to make these goods as nearly perfection as is possible in durability, quality of material and workmanship, and fineness and beauty-of finish.

Barber Ratchet Braces.

No. 30	14 inch Sweep.	Price, each.....	\$1 89
" 31	12 " "	" "	1 76
" 32	10 " "	" "	1 62
" 33	8 " "	" "	1 45
" 34	6 " "	" "	1 35

Barber Plain Braces.

No. 10	14 inch Sweep.	Price, each.....	\$1 49
" 11	12 " "	" "	1 35
" 12	10 " "	" "	1 25
" 13	8 " "	" "	1 08
" 14	6 " "	" "	95
" 15	4 " "	" "	90

Barber Improved Patent Braces.

These Braces are intended to occupy a place midway between our highest and lowest price Braces. They are made of steel, polished and nickel plated. The heads and handles are stained in imitation of cocobola. The jaws and iron quill are as seen in the cut. They also have our new anti-friction steel collar. The threads are all lathe-cut, and all parts of the Brace are made for durability.

Ratchet Braces.

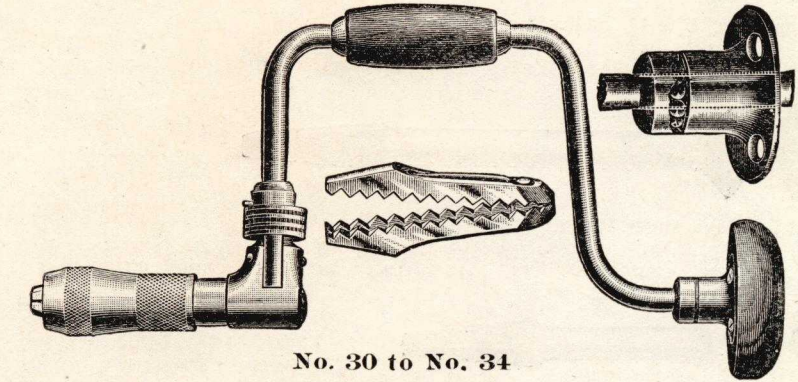
No. 322	10 inch Sweep.	Price, each.....	\$1 10
" 323	8 " "	" "	1 00

Plain Braces.

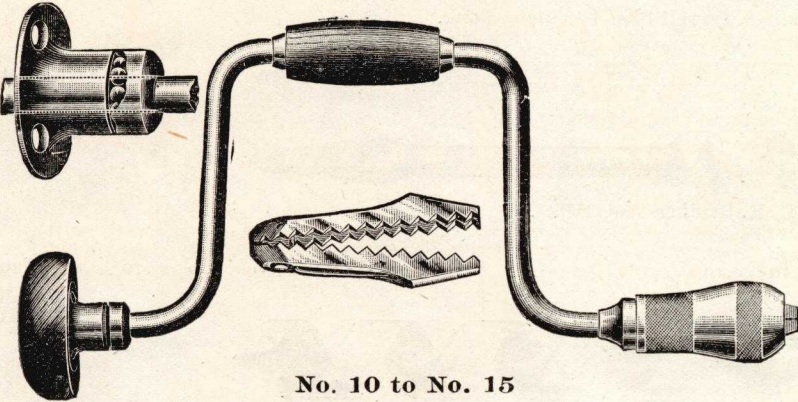
No. 222	10 inch Sweep.	Price, each.....	\$0 50
" 223	8 " "	" "	60

Spofford Braces.

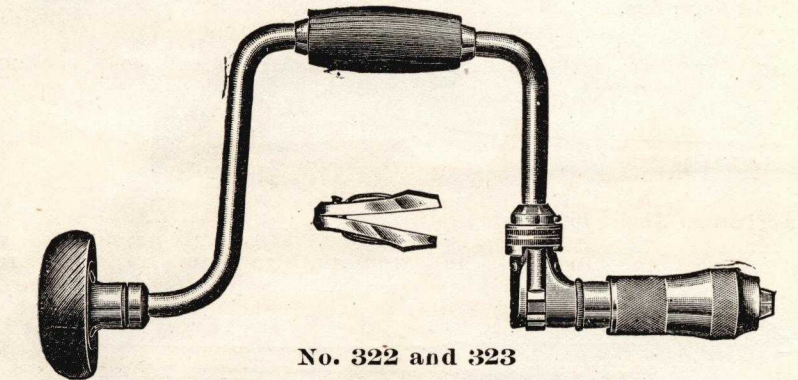
No. 107	7 inch Sweep.	Price, each.....	\$0 80
" 108	8 " "	" "	90
" 110	10 " "	" "	1 00
" 112	12 " "	" "	1 10
" 114	14 " "	" "	1 20



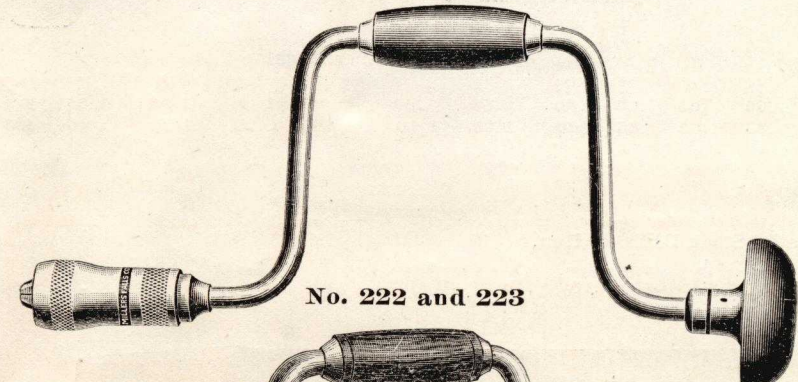
No. 30 to No. 34



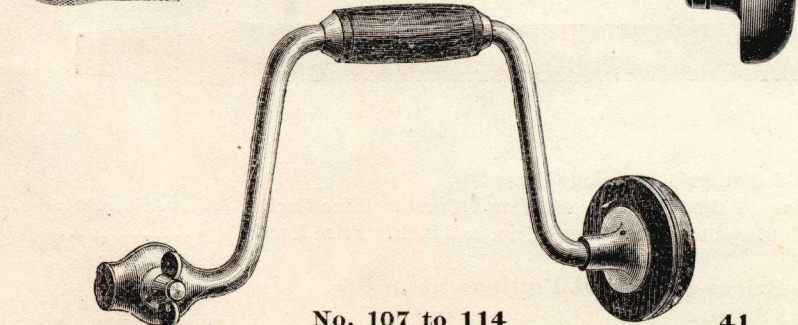
No. 10 to No. 15



No. 322 and 323



No. 222 and 223

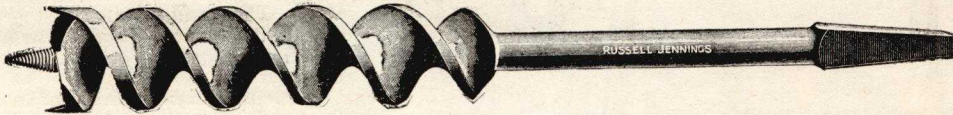


No. 107 to 114



Russell Jennings Dowel Bits 4½ inches long

Russian Jennings' Bowls and Balls																		
Size Inches.....	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{13}{16}$	$\frac{15}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	$\frac{17}{16}$	$\frac{19}{16}$	$\frac{21}{16}$	$\frac{23}{16}$	$\frac{25}{16}$
Price Each.....	.21	.17	.21	.24	.27	.30	.32	.35	.38	.42	.45	.49	.53	.56	.60	.65	.69	.71



Russell Jennings Auger Bits.

Size Inches.....	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{12}{16}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	$\frac{16}{16}$	$\frac{17}{16}$	$\frac{18}{16}$	$\frac{19}{16}$	$\frac{20}{16}$
Price Each.....	.21	.17	.21	.24	.27	.30	.32	.35	.38	.42	.45	.49	.53	.56	.60	.65	.69	.71



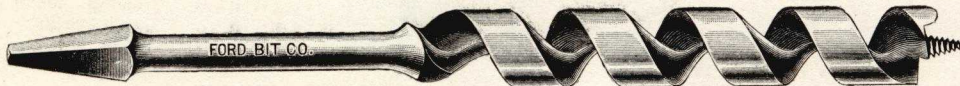
No. 1½. C. E. Jennings Dowell Bits, 4 ½ inches long.

Size Inches.....	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{8}{16}$	$\frac{9}{16}$	$\frac{10}{16}$
Price Each.....	.40	.40	.40	.40	.40	.50	.50



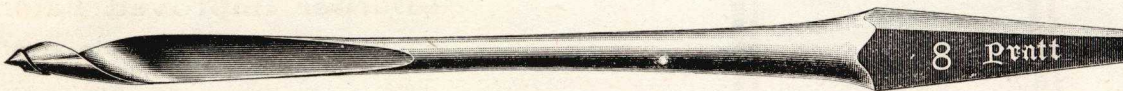
No. 1½. C. E. Jennings Auger Bits.

Size Inches.....	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	$\frac{16}{16}$
Price Each.....	.40	.40	.40	.40	.40	.50	.50	.60	.60	.70	.70	.80	.80

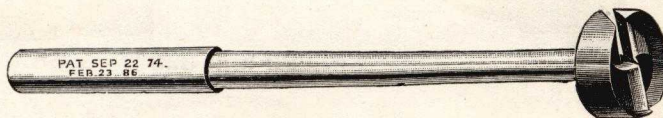
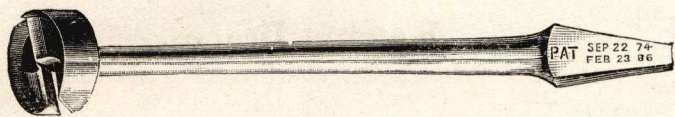


Ford's Single Twist Auger Bits.

Size Inches	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	$\frac{16}{16}$
Price Each .....	.17	.21	.24	.27	.30	.32	.35	.38	.42	.45	.49	.53	.56



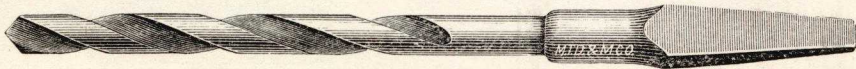
Pratt's German Pattern Gimlet Bits.

[illegible]

Forstner Brace Bits

Size Inches.....	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{10}{16}$	$\frac{11}{16}$	$\frac{12}{16}$	$\frac{13}{16}$	$\frac{14}{16}$	$\frac{15}{16}$	$\frac{16}{16}$	$\frac{18}{16}$	$\frac{20}{16}$
Price Each for Brace.....	.65	.65	.65	.65	.65	.65	.65	.80	.80	.90	.90	1 00	1 00	1 05	1 15
Price Each for Machine.....	.85	.85	.85	.85	.85	.85	1 00	1 00	1 00	1 10	1 10	1 20	1 20	1 25	1 35

Forstner Machine Bits



Morse Bit Stock Drills for Iron.

Size Inches.....	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{13}{32}$	$\frac{7}{16}$	$\frac{15}{32}$	$\frac{1}{2}$
Price Each .....	.07	.08	.10	.12	.15	.18	.19	.20	.24	.27	.30	.34	.38	.41	.44



Clark's Pattern Expansion Bits.

No. 1.	Small size has two cutters, one boring from $\frac{1}{2}$ in. to $\frac{3}{4}$ in. and the other from $\frac{3}{4}$ in. to $1\frac{1}{2}$ inch.	Price Each.....	\$.75
No. 2.	Large size has two cutters, one boring from $\frac{3}{8}$ in. to $1\frac{1}{4}$ in. and the other from $1\frac{3}{4}$ in. to 3 inch.	Price Each	1.09

We make Special Prices on School Equipments.

Automatic Drills and Screw Drivers.

No. **3** Automatic Drills, nickel plated, with 8 drills in handle, 1-16 to 11-64 inch, price each.....\$1 25

No. **03** Automatic Drills, not plated, with 8 drills in handle, 1-16 to 11-64 inch, price each..... 1 10

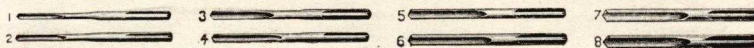
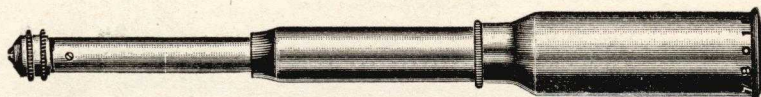
No. **2** Automatic Drill, nickel plated, with 8 drills, 1-16 to 11-64 inch, price each\$1 00

No. **02** Automatic Drill, not plated, with 8 drills, 1-16 to 11-64 inch, price each..... 85

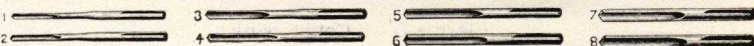
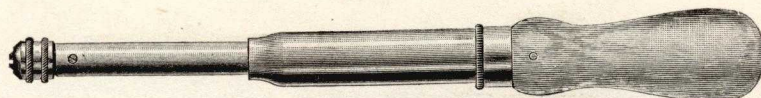
No. **1** Automatic Drill, nickel plated, with 8 drills, 1-16 to 11-64 inch, price each\$1 00

No. **01** Automatic Drill, not plated, with 8 drills, 1-16 to 11-64 inch, price each..... 85

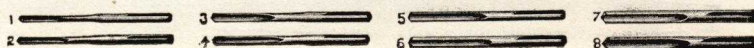
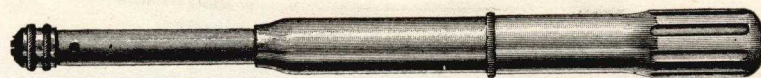
No. **3½** Automatic Drill, nickel plated, with 8 drills in handle, 1-16 to 11-64 inch, price each.....\$1 25



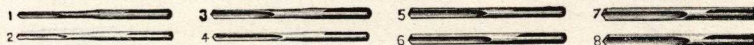
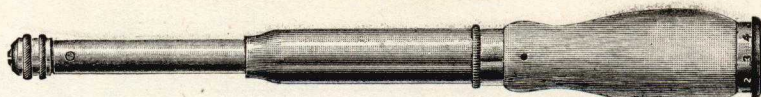
Style of No. 3 and 03 Automatic Drills.



Style of No. 2 and 02 Automatic Drills.



Style of No. 1 and 01 Automatic Drills.



Style of No. 3½ Automatic Drill.

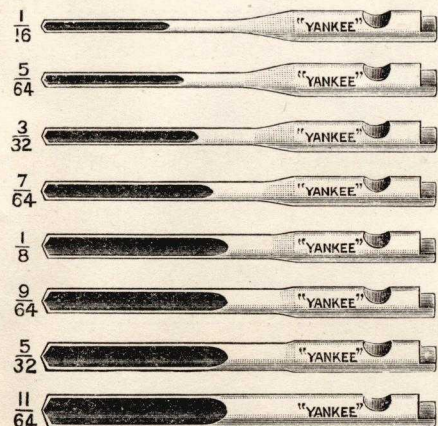
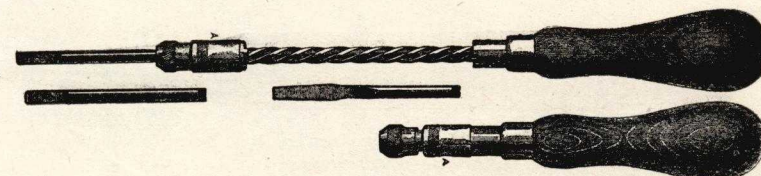
Goodell's Automatic Screw Drivers.

This Screw Driver is made to be used as an Automatic, Ratchet or a plain screw driver. Made in three sizes.

No. **1** Length extended 14 inches, price each.....\$1 05

No. **2** " " 16 " " " 1 20

No. **3** " " 18 " " " 1 35



Yankee Automatic Drill

Yankee Automatic Drills, nickel plated, with cells in handle to hold 8 drills from 1-16 to 11-64 inch, as shown herewith, price each.....\$1 25



No. 30 Yankee Spiral-Ratchet Screw Driver.

No. **30** Yankee Spiral Screw Driver, can be used to take out a screw as well as driving one. It also can be used as a ratchet and a rigid screw driver by setting a small dog.

Price each.....\$1 25

We can furnish a set of 8 drills and chuck to be used in above No. 30 Screw Driver.

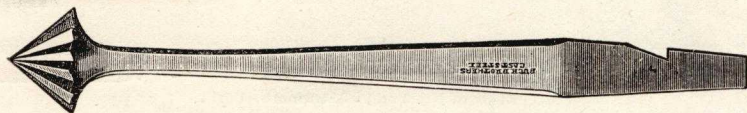
Price per set..... 50

We Make Special Prices on School Equipments.

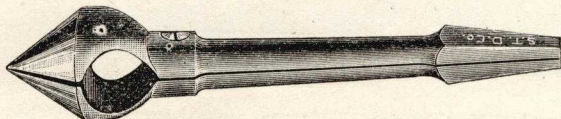
Champion Pattern Screw Drivers



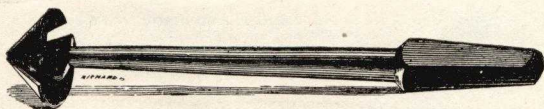
Size of Blade	2½	3	4	5	6	7	8	10	12
Price Each.....	20c	25c	30c	35c	40c	50c	60c	70c	75c



No. 83 Rose Countersink.



Clark's D. C. Countersink.



Stevens' D. L. Countersink.



Buck Bros. Square Reamer.



Buck Bros. Screw Driver Bit.



Buck Bros. Nail Set.



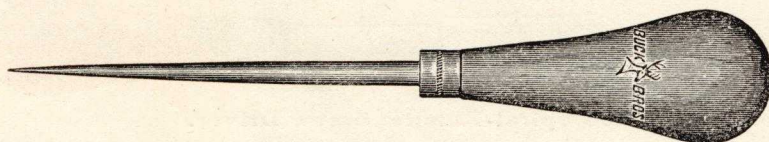
No. 999 Pratt's Knurled Nail Set.



No. 995 Pratt's Knurled Center Punch.



No. 997 Pratt's Knurled Drive Punch.



No. 86 Buck Bros. Scratch Awl.



File Card and Scorer.



File Card and Brush.

No.		Price Each
83	Buck Bros. Rose Countersinks	23c
82	Buck Bros. Flat Countersinks	21c
84	Buck Bros. Snail Countersinks	21c

Clark's Double Cut Countersinks..... 30c

1	¾ inch Stevens' Double Lip Countersinks	35c
2	¾ inch Stevens' Double Lip Countersinks	40c

80	Buck Bros. Flat Reamers	20c
80	Buck Bros. Square Reamers	20c
81	Buck Bros. Half Round Reamers	22c
81	Buck Bros. Hexagon Reamers	23c

72 Buck Bros. Screw Driver Bits..... 17c

77 Buck Bros. Nail Sets, assorted..... 15c

999 Pratt's Knurled Cup Point Nail Sets, assorted points 2-32, 3-32, 4-32, 5-32 inch..... 10c

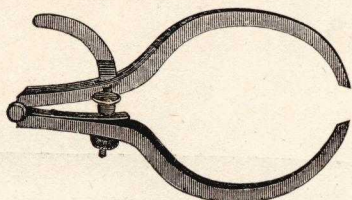
995 Pratt's Knurled Center Punches, made of ⅜ inch stock..... 15c

997 Pratt's Knurled Hollow Drive Punches, made of ⅜ inch stock in four sizes, 1-8, 5-32, 3-16, 7-32 inch. 20c

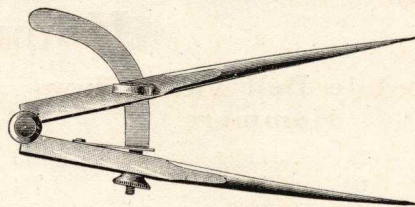
86 Buck Bros. Scratch Awls 15c

Nicholson File Cards with Scorer.....	20c
Nicholson File Cards and Brush.....	37c

We Make Special Prices on School Equipments



Wing Caliper



Wing Dividers

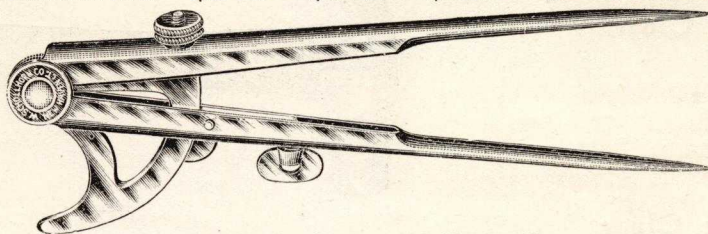
Size inches	5	6	8	10	12	15	18
Price each.....	\$0.50	.53	.62	.77	.92	1.03	2.30

Bemis & Call Wing Dividers

Size inches.....	5	6	7	8	10	12	15	18
Price each.....	\$0 30	\$0 32	\$0 38	\$0 43	\$0 58	\$0 69	\$1 15	\$1 72

Peck Stow and Wilcox Wing Dividers

Size inches.....	5	6	7	8	10	12	15	18
Price each.....	\$0 23	\$0 23	\$0 28	\$0 32	\$0 42	\$0 50	\$0 75	\$1 05



Excelsior Spring Dividers

This new device of adjustment makes this Tool practically a "SPRING DIVIDER," and adaptable for fine adjustments, and a desirable tool for every Mechanic and Draftsman. The fastening on this Divider is superior to any other, and the points, which are the most essential feature on a tool of this kind, are made of STUBS' STEEL WIRE, tempered and inserted two inches into each leg, which produces the **best point**, whether used on metal or wood.

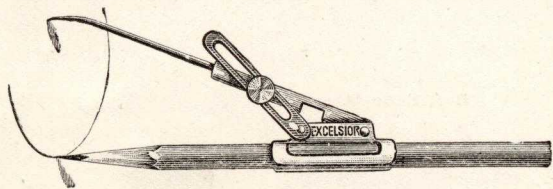
used on metal or wood

6 inch.....	Price each	\$0 35	8 inch.....	Price each	\$0 45
-------------	------------	---------------	-------------	------------	---------------

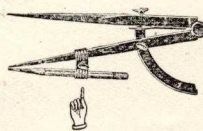


EAGLE DIVIDER AND COMPASS
No 569.
PATENTED, DEC. 11TH. 1894.

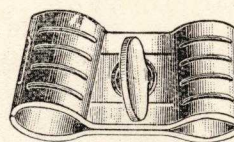
In addition to a regular Divider this tool has a pencil point and a pen point which can be made by reversing the tips. Price each..... **\$0 25**



Excelsior Pencil Compass



In use.



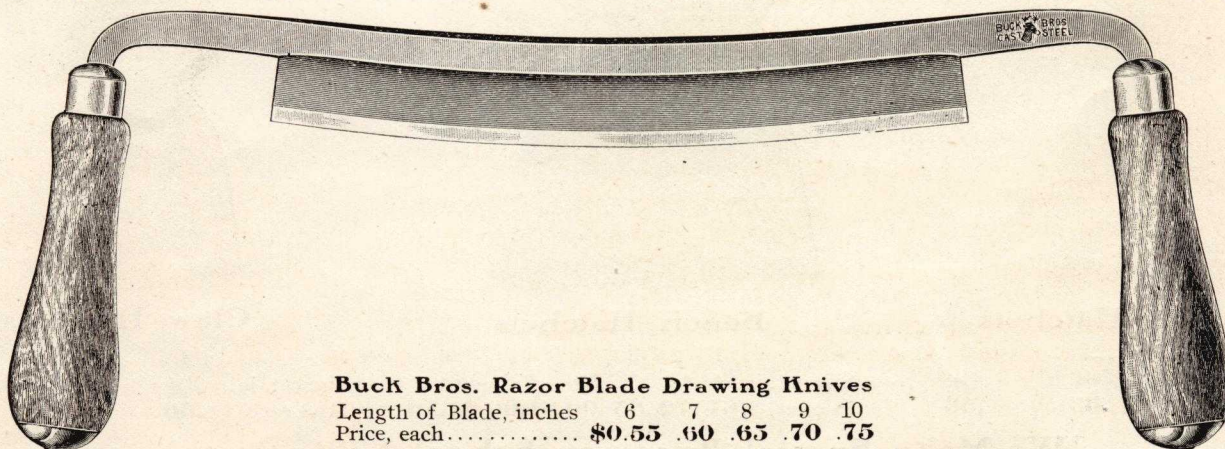
Full size.

This attachment can be used on any ordinary lead pencil.....

Price each	\$0 15
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Stanley Pencil Attachment

This clamp can be fastened to any ordinary divider. Price each **\$0 10**



Buck Bros. Razor Blade Drawing Knives

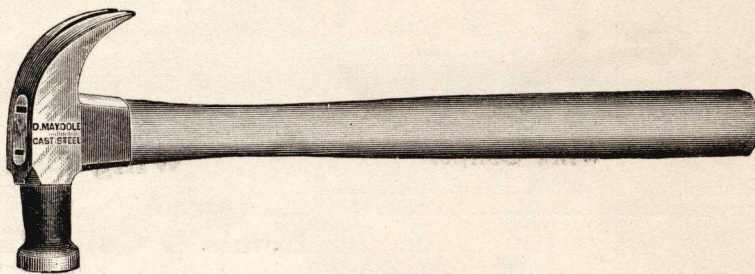
Length of Blade, inches	6	7	8	9	10
Price, each.....	\$0.55	.60	.65	.70	.75

We make special prices on school equipments

Hammers and Hatchets

Maydole Bell Face Claw Hammers

No.	11	11½	12	13
Weight, oz.	20	16	13	7½
Price each	.65	.60	.55	.50



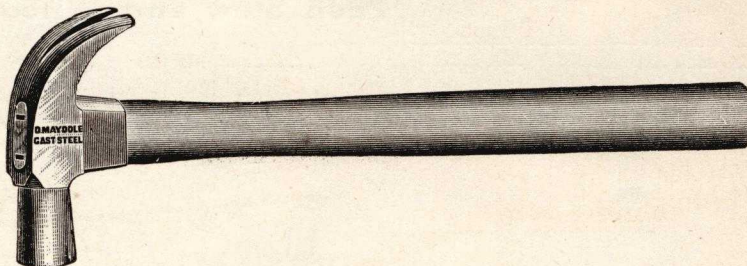
Style No. 11 to 13

Hammond Bell Face Claw Hammers

No.	11	11½	12	13
Weight, oz.	20	16	13	7½
Price each	.55	.50	.45	.40

Maydole Plain Face Claw Hammers

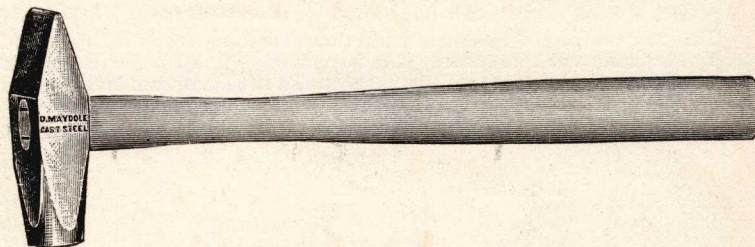
No.	1	1½	2	3
Weight, oz.	20	16	13	7½
Price each	.65	.60	.55	.50



Style No. 1 to 3

Hammond Plain Face Claw Hammers

No.	1	1½	2	3
Weight, oz.	20	16	13	7½
Price each	.55	.50	.45	.40



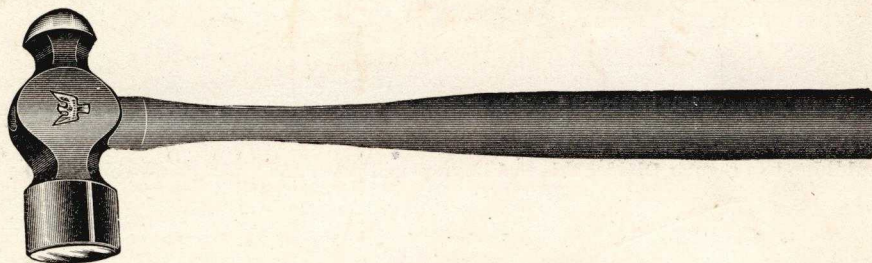
Style of Nos. 40 to 44 and 230 to 234

Maydole Riveting Hammers

No.	44	43	42	41	40
Weight, oz.	4	7	13	18	24
Price each	.38	.40	.45	.50	.60

Atha Riveting Hammers

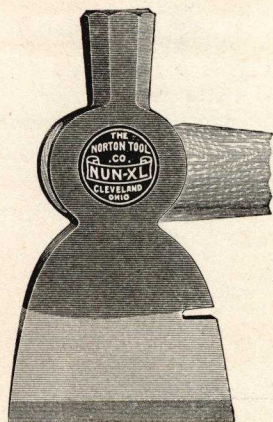
No.	230	231	232	233	234
Weight, oz.	4	7	9	12	15
Price each	.31	.32	.34	.35	.36



Ball Pene Hammers

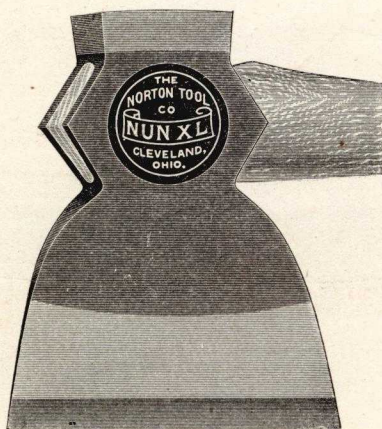
Ball Pene Hammers

No.	5/0	4/0	3/0	2/0	0	1	2	3	4
Weight, oz.	4	6	8	12	16	20	24	28	32
Price each	.50	.50	.50	.50	.53	.57	.60	.65	.69



Shingling Hatchets

No.	1	2	3
Size cut, in.	3½	4	4½
Price each	.50	.53	.56



Bench Hatchets

No.	1	2	3	4	5	6
Size cut, in.	4	4½	5	5½	6	6½
Price ea.	.67	.72	.85	.90	\$1.00	\$1.10



Claw Hatchets

No.	1	2	3
Size cut, in.	3½	4	4½
Price each	.56	.60	.63

We Make Special Prices on School Equipments

Venetian Iron Work

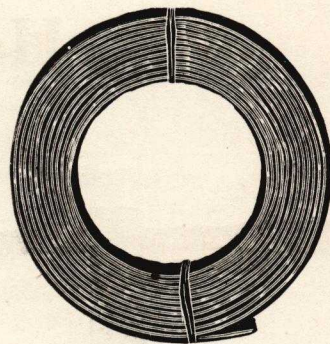
The increased demand for Venetian Iron from school districts tells us that this work is becoming more popular every day, and is taken up as a regular course in Manual Training Schools. We have a small assortment of different designs, such as Picture Frames, Paper Racks, Pipe Racks, etc., which we will mail to any address at **10c** each.

Price List of Venetian Iron and Binders

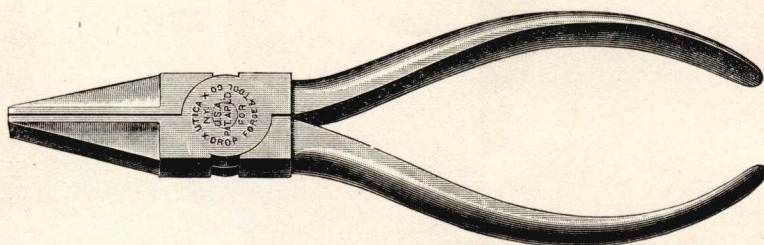
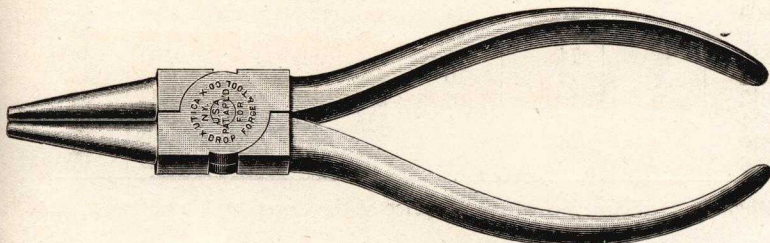
50 feet Coils.....	1/8	1/4	3/8	1/2
Price per Coil .....	.25	.25	.25	.30
Binders, all sizes.....	1/8 1/4 and 3/8 per hundred.....	.15		



Binders



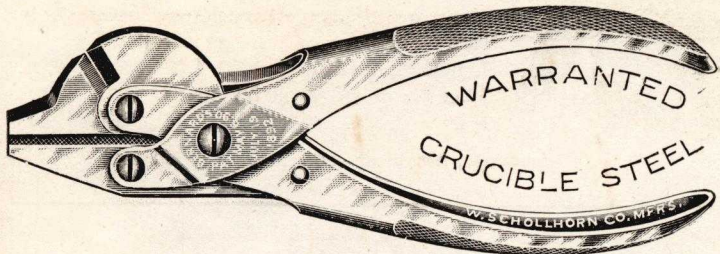
Venetian iron in Coils



Flat and Round Nose Pliers for Venetian Iron Work

No. 20. Flat Nose Pliers, inches	5	5 1/2	6
Price each.....	.25	.30	.35

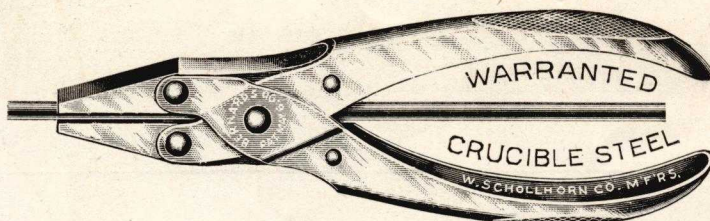
No. 21. Round Nose Pliers, inches.....	5	5 1/2	6
Price each.....	.25	.30	.35



Bernard's Cutting Pliers

Bernard's Cutting Pliers

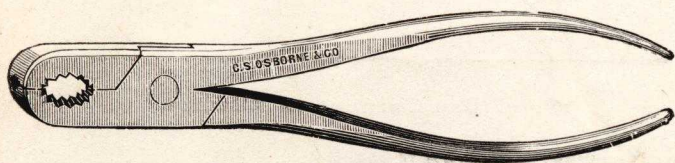
Length, inches	4 1/2	5 1/2	6 1/2	7 1/2
Price each....	.77	.97	\$1.17	\$1.60



Bernard's Flat and Round Nose Pliers

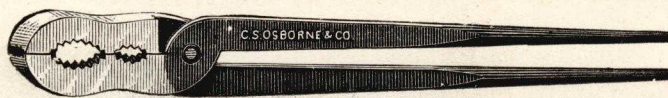
Bernard's Flat or Round Nose Pliers

Length, inches	4 1/2	5 1/2	6 1/2	7 1/2
Price each.....	.47	.60	.77	\$1.00



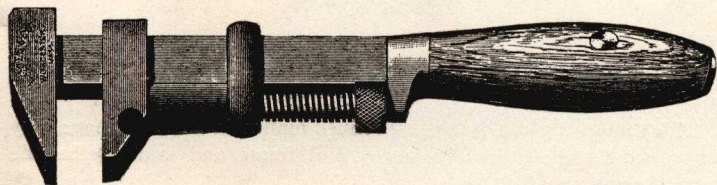
Osborne's Burner Pliers

Length, inches.....	5	6	7
Price each.....	.40	.45	.50



Osborne's Gas Pliers

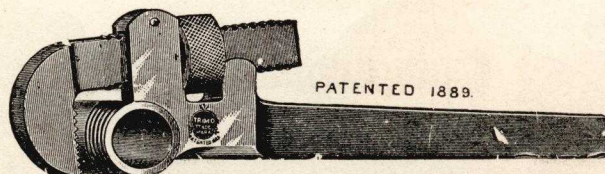
Length, inches	8	9	10	12	14
Price each .....	.60	.70	.75	.90	\$1.20



Monkey Wrench

Solid Handle Monkey Wrench

Length, inches..	6	8	10	12	15	18	21
Price, each.....	.45	.50	.60	.70	\$1.20	\$1.50	\$1.80.



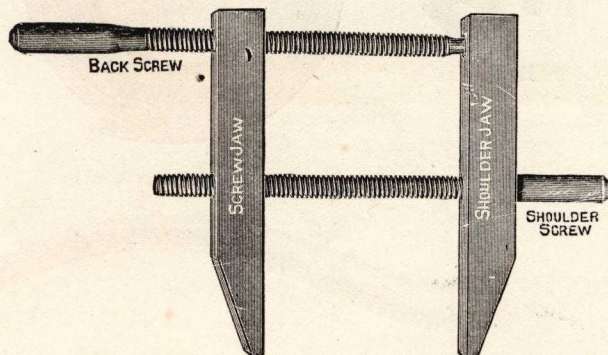
Trim Pipe Wrench

Trim Pipe Wrenches

Length, inches..	6	8	10	14	18	24
Price each.....	\$1.00	\$1.00	\$1.13	\$1.50	\$2.00	\$3.00

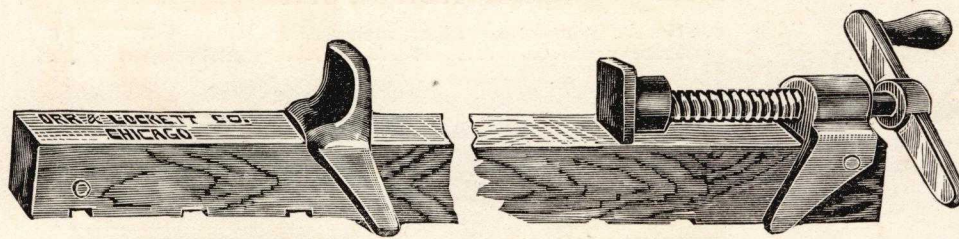
We Make Special Prices on School Equipments

Hand Screws and Clamps.



New Nos.	Diameter of Screws.	Whole Length of Screws	Whole Length of Jaws.	Size of Jaws.	Open.	Per Dozen	Each
800	1 1/4 in.	28 in.	24 in.	3 by 3 in.	17 in.	\$9 60	\$1 00
801	1 1/4	26	22	2 3/4 2 3/4	15 1/2	8 40	80
802	1 1/4	24	20	2 3/8 2 3/8	13 3/4	7 60	70
803	1 1/4	22	20	2 1/2 2 1/2	12	7 20	68
804	1 1/8	22	18	2 1/2 2 1/2	12 1/4	6 80	64
805	1 1/8	20	18	2 3/8 2 3/8	10 1/2	6 40	60
806	1	20	16	2 3/8 2 3/8	11	6 00	57
807	1	18	16	2 1/4 2 1/4	9 1/4	5 60	53
808	7/8	18	14	2 1/8 2 1/8	10	5 20	50
809	7/8	16	14	2	8 1/4	4 80	45
810	7/8	16	12	1 7/8 1 7/8	8 1/2	4 40	42
811	3/4	14	12	1 3/4 1 3/4	7 1/4	4 00	38
812	3/4	12	10	1 3/8 1 3/8	5 1/2	3 40	32
813	5/8	10	8	1 3/8 1 3/8	4 1/2	2 80	26
814	5/8	8	7	1 1/8 1 1/8	3	2 20	21
815	1/2	6	5	1	2	1 80	17
816	3/8	5	4	7/8 7/8	1 1/4	1 60	15

Either Screw or Jaw, one-third the price of the Complete Hand Screw.

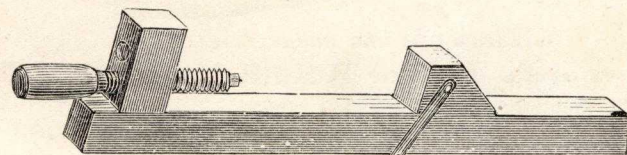


The Latest Wood Bar Clamp.

This illustration shows our latest Wood Bar Clamp. We can furnish these clamp screws alone or with maple bars. They are made for bars 1 3/8 x 2 1/2 inches. Prices as follows:

Length.....	2 ft.	3 ft.	4 ft.	5 ft.	6 ft.
Price per doz.	\$9 00	\$9 50	\$10 00	\$10 50	\$11 00
Price each ...	85	90	95	1 00	1 05

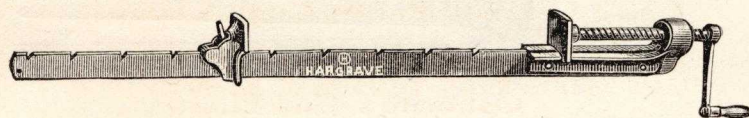
Irons only, per dozen sets....\$8 00 Per set....\$0 75



Cabinet Makers' Wood Clamps.

Wood Cabinet Makers' Clamps.

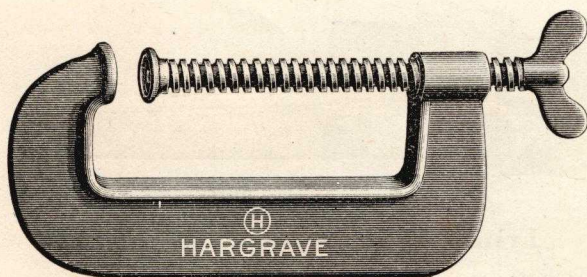
Size of Opening.....	2 ft.	3 ft.	4 ft.	5 ft.	6 ft.
Per dozen.....	\$6 30	6 75	7 65	9 00	10 80
Each.....	60	63	70	84	1 00



Steel Bar Carpenter Clamp.

Steel Bar Carpenters' Clamps.

Size of Opening.....	2 1/2 ft.	3 ft.	4 ft.	5 ft.	6 ft.
Per dozen.....	\$18 00	19 20	21 60	24 00	40 80
Each.....	1 69	1 80	2 00	2 25	3 85



Cincinnati Tool Co.'s Standard Clamps.

This Clamp is made of the best refined malleable iron. It has a very deep square thread in both the screw and frame, and is altogether the strongest clamp made.

Size Opening....	2 1/2	3	4	5	6	7	8
Per dozen.....	\$1 50	1 90	2 50	3 35	3 85	4 50	5 35
Each.....	15	20	25	35	40	45	50

We Make Special Prices on School Equipments.

Bench Screws and Clamps

Wrought Iron Bench Screw Wood Handle

No. 40 Diameter, inches..	1	1 1/8	1 1/4	1 1/2
Inches long from Collar....	12	12	12	12
Price each.....	\$0.35	\$0.40	\$0.50	\$0.70

No. 50 Diameter, inches..	1	1 1/8	1 1/4	1 1/2
Inches long from Collar....	15	15	15	15
Price each	\$0.50	\$0.55	\$0.65	\$1.10

No. 50 Extra long, diameter, in.	1	1 1/8	1 1/4	1 1/2
Inches long from Collar	18	18	18	18
Price each.....	\$0.80	\$0.90	\$1.00	\$1.50

Patent Groove Wood Bench Screw

These wood bench screws have a patented metallic flange (as shown in cut) which obviates mortising the jaw and weakens it.

Price each, 2 inches diameter, 18 inches long	\$0.40
Price each, 2 1/2 inches diameter, 18 inches long	45

Bowers' Patent Bench Screw

The Bowers' patent bench screw also has the metallic flange and a bevel thread, making a quick acting screw. One turn of this screw is equal to two of above.

Price each, 2 1/2 inches diameter, 18 inches long	\$0.50
---	--------

Colts' Eccentric Clamps

This clamp is manufactured from the best malleable iron. Its main bar has a double flange on each side, making it very strong but light. The sliding arm or jaw is made to slide easily in the main bar, and can be changed instantly. Thus by moving the sliding jaw against your work it can readily be clamped by raising the eccentric lever.

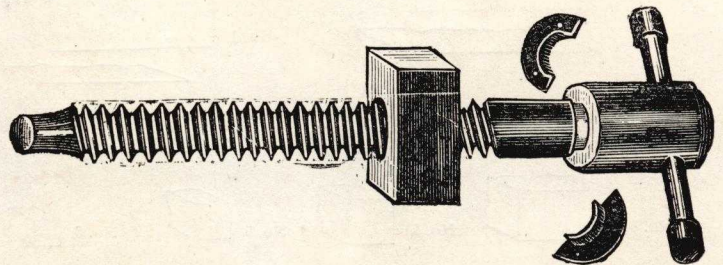
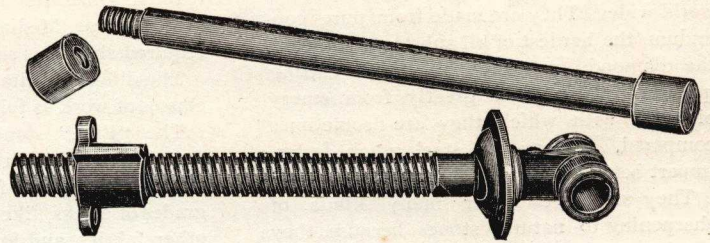
Price List

Number.....	0	1	2	3	4
Opens, inches.....	2 1/4	4	6	8	12
Price each.....	\$0.20	\$0.27	\$0.37	\$0.47	\$0.57

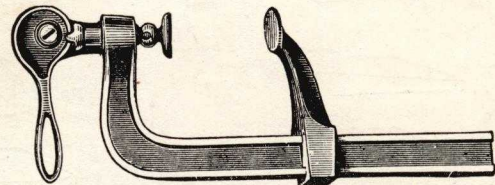
Snow's Adjustable Clamps

The advantages derived from the use of these clamps will be obvious to all using them. By placing the thumb and forefinger on the lever the jaws are opened, allowing the screw to move backward or forward to any required position, without turning. The pin which holds the jaws in place is subject to no strain, the pressure of the screw being received on the square and solid shoulder of the jaws. These clamps are all made in a workmanlike manner, of the best material, the screws being of the best wrought iron, nicely fitted and we feel confident that it is a superior clamp in every respect.

Opens, inches..	2	3	4	5	6	7	8
Per dozen.....	\$3.88	\$4.38	\$4.88	\$5.50	\$7.33	\$8.25	\$9.75
Price each	39	44	50	55	75	80	1.00



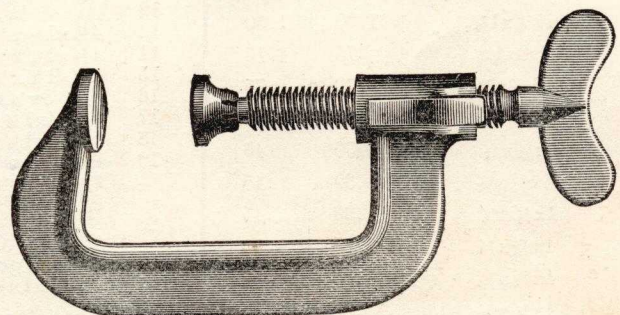
Wood Bench Screw



Colts' Eccentric Clamps

Colt's Cabinet Makes, Long Clamps

Open, inches..	18	21	24	30	36	42	48
Price each....	\$0.70	\$0.75	\$0.80	\$0.90	\$1.00	\$1.10	\$1.20



Snow's Adjustable

We Make Special Prices on School Equipments.

India Oil Stones

The India are comparatively new, having been on the market but a few years, yet their reputation and use have become world wide. They are made from pure corundum, the hardest of all substances except the diamond, and have wonderful cutting qualities. They differ greatly from emery oilstones with which they are sometimes compared, as they cut steel much faster, impart better edges, and do not glaze.

They are superior for many kinds of sharpening to natural stones because they cut faster, keep a better surface, and are free

from seams and uneven spots, and are uniform in texture.

India Oilstones are furnished in three grits—Coarse, Medium and Fine, and in all required shapes as shown below.

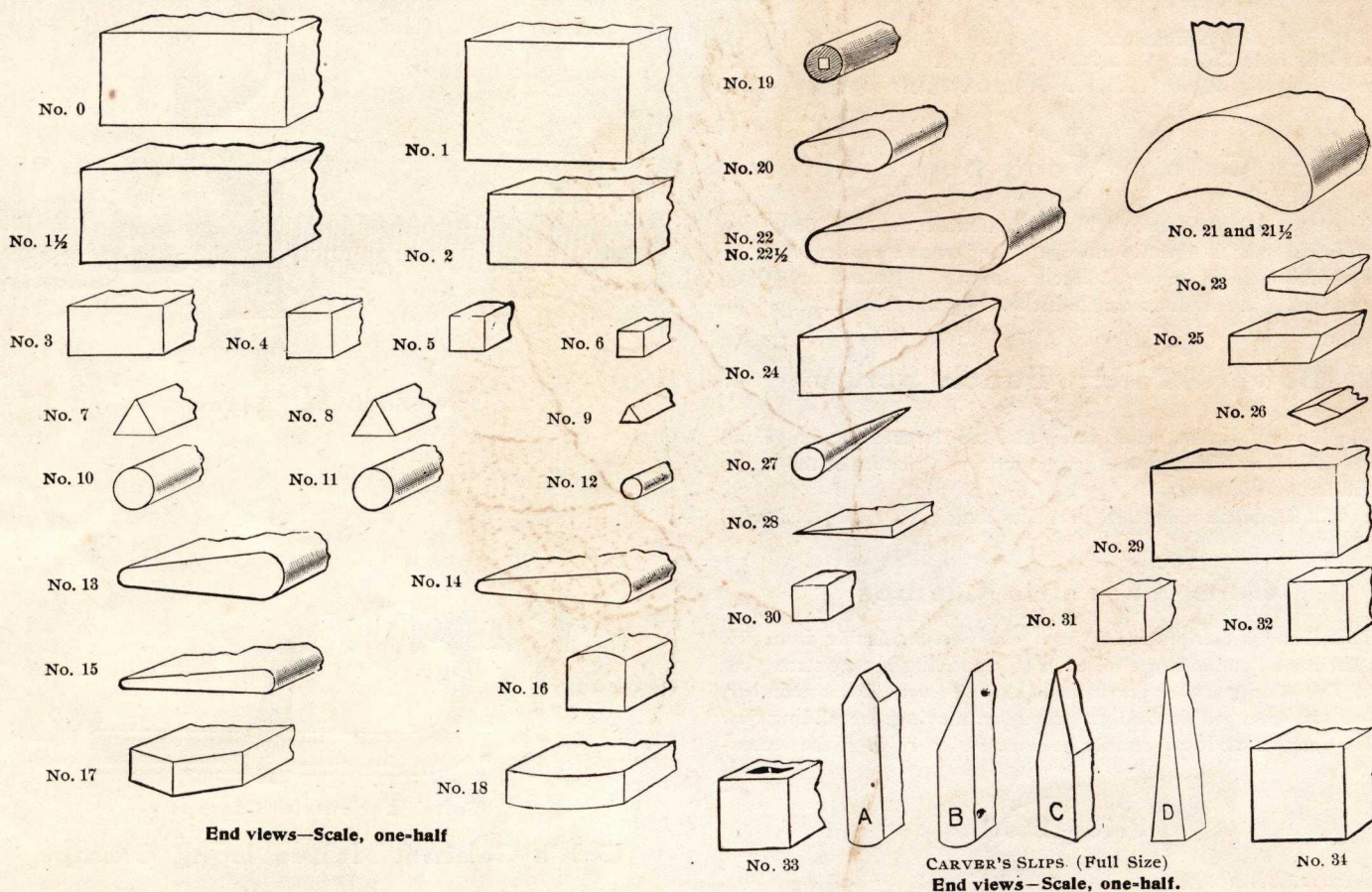
The different grits are used for different classes of work as follows:

The "Fine" stones are adapted for all descriptions of high class wood and metal working tools, also for knives for the finer grades of cloths, like silks, satins, serges, and other fabrics, and for all classes of tools requiring fine cutting edges.

The "Medium" stones are adapted for carpenters' and pearl workers' tools and ordinary machine shop use, also cloth, leather, rubber and paper cutting machines or hand knives, and will make a quick cutting edge, although not quite as smooth as the "Fine" stone.

The "Coarse" stones are adapted for rough work where fast cutting is required, without regard to fine finish, also for rubbing stones.

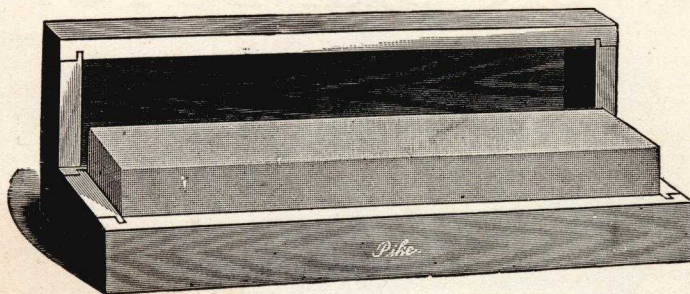
All India Stones are sold under a positive guarantee to give satisfaction.



SHAPE	DIMENSIONS	PRICE EACH		SHAPE	DIMENSIONS	PRICES EACH		SHAPE	DIMENSIONS	PRICES EACH	
		COARSE AND MEDIUM	FINE			COARSE AND MEDIUM	FINE			COARSE AND MEDIUM	FINE
0	8x2x1	\$1.00	\$1.50	11	4x3/8	.40	.60	22	4 1/2 x 2 1/8 x 3/8 x 5/16	.40	.60
1	8x1 3/4 x 1 1/4	1.00	1.50	12	4x1/4	.40	.60	22 1/2	6x2 1/4 x 3/4 x 3/8	.50	.75
1 1/2	7x2x1	.75	1.15	13	4 1/2 x 1 3/4 x 1/2 x 3/16	.30	.45	23	3 1/2 x 3/4 x 3/16 x 1/8	.30	.45
2	6x1 5/8 x 3/4	.50	.75	14	4 1/2 x 1 3/4 x 3/8 x 1/8	.30	.45	24	4 1/2 x 1 1/2 x 5/8	.40	.60
3	4x1x1/2	.30	.45	15	4 1/2 x 1 3/4 x 1/4 x 1/16	.30	.45	25	4 1/2 x 1 x 5/16	.30	.45
4	4x1/2 x 1/2	.30	.45	16	8x5/8 x 3/8	.50	.75	26	4x9/16 x 3/16	.50	.75
5	4x3/8 x 3/8	.30	.45	17	4x1 1/4 x 3/8	.30	.45	27	Points 3x5/16	.50	.75
6	4x1/4 x 1/4	.30	.45	18	4x1 1/4 x 3/8	.30	.45	28	Knife blade		
7	4x1/2 x 1/2	.35	.50	19	Engravers' pencils	.40	.40				
8	4x3/8 x 3/8	.35	.50		Fine one end medium the other			29	4x1x1/8	.50	.75
9	4x1/4 x 1/4	.35	.50	20	4x1x7/16 x 3/16	.30	.45	30	6x2x1	.60	.90
10	4x1/2	.40	.60	21	Special gouge slip			31	6x3/8 x 3/8	.40	.60
					6x2x1x3/8 x 3/16		.50	32	6x3/8 x 3/8	.40	.60
				21 1/2	Special gouge slip		.75	33	6x3/4 x 3/4	.50	.75
					9x3x1 1/4 x 3/4 x 3/8			34	6x1x1	.50	.75
									1 set (4) carver's slips	1.00	1.50
									2 1/4 x 7/8 x 3/16		
									Axe Stones 2x2x3/4	.30	.45

We Make Special Prices on School Equipments.

Oil Stones.



Mounted Oil Stones.

Sizes of Stones.....	3½x1	4x1½	5x2	6x2	7x2	8x2
Washita Stones, Price Each.....	.40	.45	.60	.70	.75	.80
Soft Arkansas Stone, Price Each....	.50	.70	1.00	1.20	1.35	1.50
Hard Arkansas Stone, Price Each.....	.70	1.00	1.60	2.00	2.40	2.65



Oil Stones Not Mounted.

Size of Stone.....	5x2x¾ inch	6x2x¾ inch	7x2x1 inch	8x2x1 inch
Washita Oil Stone, Price each .....	.30	.40	.50	.55
Lily White Washita Oil Stone, Price each.....	.35	.45	.60	.70
Rosy Red Washita Oil Stone, Price each.....	.35	.45	.60	.70
Soft Arkansas Oil Stone, Price each.....	1.40	1.75	2.00	2.25
Hard Arkansas Oil Stone, Price each.....	2.60	3.25	4.00	4.50



Slip Stones.

Size of Stone.....	3x2x¾x¾ inch	4x2x¼x½ inch	5x2x¼x½ inch
Washita Slip Stone, Price each.....	.12	.18	.20
Rose Red Slip Stone, Price each.....	.15	.22	.25
Lily White Slip Stone, Price each.....	.15	.22	.25
Soft Arkansas Slip Stone, Price each.....	.65	.75	.85
Hard Arkansas Slip Stone, Price each.....	.80	1.00	1.20

Indian Oil Stones. Mounted in Polished Wood Cases.

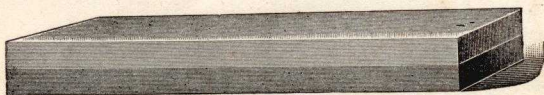
SHAPE.	DIMENSIONS STONE.	PRICES EACH, INCLUDING BOX.		COMBINATION.
		COARSE AND MEDIUM	FINE.	
0	8x2x1	\$1.25	\$1.75	\$1.50
1	8x1¾x1¼	1.25	1.75	1.50
1½	7x2x1	1.00	1.40	1.25
2	6x1½x¾	.75	1.00	.90
3	4x1x½	.55	.70	

India Oil Stones Mounted in Iron Boxes.

SHAPE.	DIMENSIONS STONE.	PRICES EACH, INCLUDING BOX.		COMBINATION.
		COARSE AND MEDIUM	FINE.	
0	8x2x1	\$1.25	\$1.75	\$1.50
2	6x1½x¾	.75	1.00	.90
29	6x2x1	.85	1.15	1.00



INDIA OIL STONES.
Mounted In Iron Boxes.

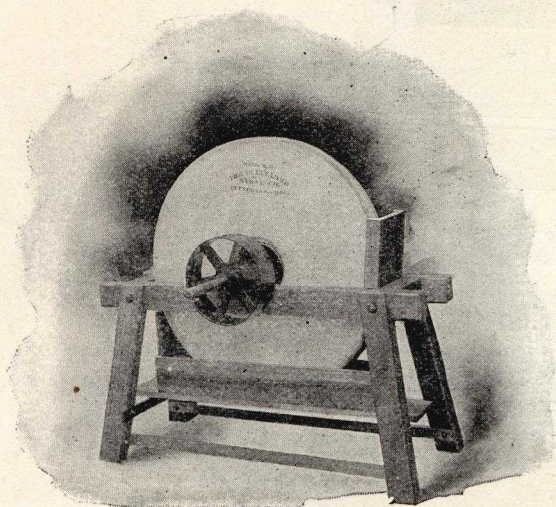


COMBINATION STONE.

The Iron boxes are fitted with four cork feet, which will to a great extent prevent them from sliding on bench while in use. The stone rests on a piece of felt in bottom of box, which absorbing a quantity of oil, keeps the stone moist.

We Make Special Prices on School Equipments.

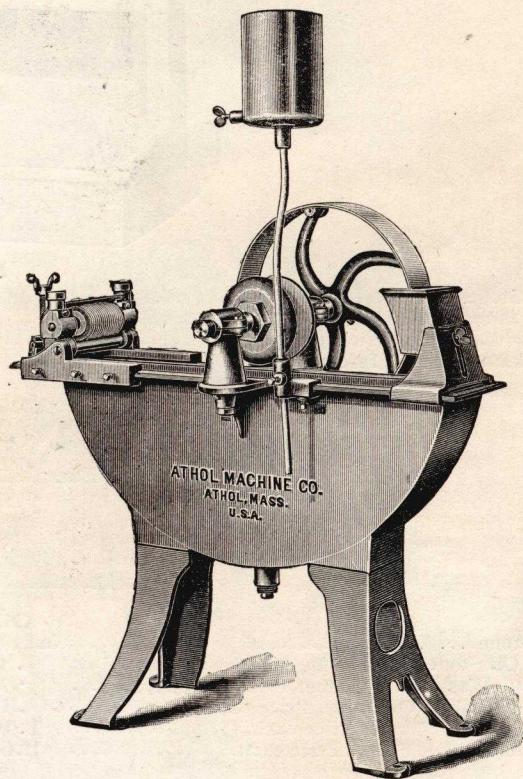
POWER GRINDSTONES



Hercules Grindstones

FOR POWER USE.

No.	Diameter.	Thickness of Stone.	Price Complete.
5.....	24 inches.	3 inches.	\$15 00
6.....	30 "	4 "	18 00
7.....	36 "	4½ "	22 00
8.....	42 "	5 "	25 00
9.....	48 "	6 "	35 00
10.....	54 "	7 "	45 00
11.....	60 "	8 "	55 00



Iron Grindstone Frame

With adjustable tool rest, truing attachment and water pot, for power as shown in cut. Price, complete with 30x4 inch stone.....\$24 00
Same as above, but arranged for hand and foot power, without truing device. Price, complete..... 20 00

Keystone Power Grindstone

WITH CAST IRON FRAME AND REST.

No.	Diameter of Stone.	Thickness of Stone.	Size of Shaft at Bearings.	Price Complete With Stone.
20.....	30 inches.	3 inches.	1 inch.	\$24 50
21.....	30 "	3½ "	1 "	25 00
22.....	30 "	4 "	1 "	25 50
23.....	30 "	4½ "	1 "	26 00
24.....	36 "	4½ "	1¼ "	32 00
25.....	36 "	5 "	1¼ "	33 00
27.....	36 "	6 "	1¼ "	35 00
28.....	38 "	5 "	1¼ "	34 00
29.....	38 "	6 "	1¼ "	36 00
30.....	40 "	5 "	1¼ "	35 00



We furnish a 12-inch pulley with all sizes Keystone Frames, but will substitute any required size, charging only actual difference in cost.

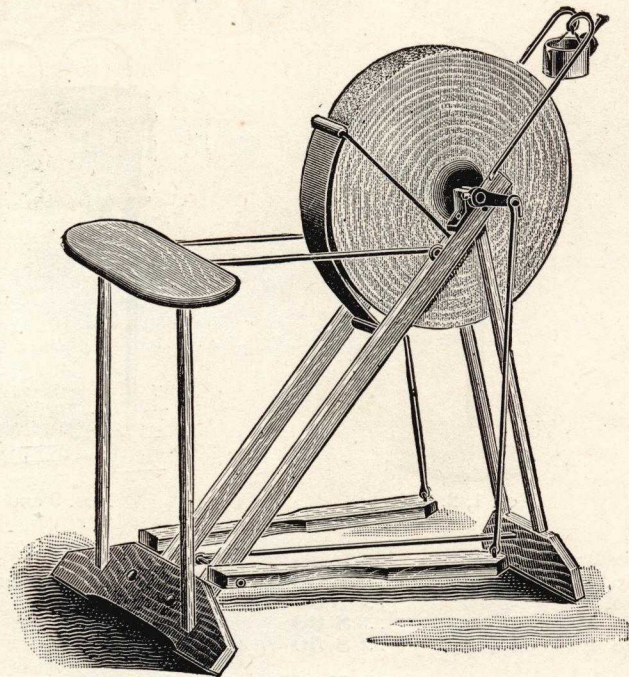
We Make Special Prices on School Equipments.

Dayton Ball-Bearing, Double-Treadle Grindstone.

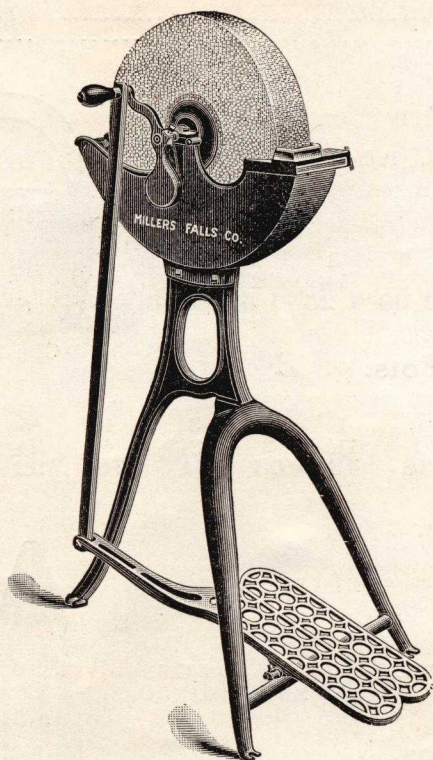
The best and handiest Grindstone for a Manual Training Room. Every boy does his own grinding. The frame is made of hardwood and wrought iron well put together. The stone is of good even grit. It has a Ball-bearing Axle and runs very easily.

Made in three sizes.

No. 18B.	18x2¼	Stone.....	Price	\$3 50
No. 20B.	20x2½	"	"	4 00
No. 22B.	22x3	"	"	4 50



No. 3 Foot Power Grindstone.



This grindstone is intended for light work, such as Chisels, etc. The stone measures 14 inches in diameter and 1¾ inches thick. As the cut shows the stone is operated by a wooden pitman which is durable and satisfactory.

Price each.....\$4 00

Hercules Grindstones.

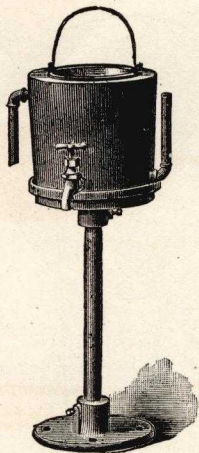


For Hand and Foot Power.
PRICE LIST.

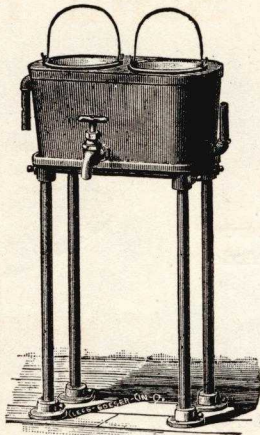
No.	Diameter and Thickness of Stone.	Stone Weighs About	Price Complete
1.....	24 x 2	80 lbs	\$6 50
2.....	24 x 3	120 "	7 50
3.....	26 x 2½	115 "	7 50
4.....	26 x 3	140 "	7 75
5.....	28 x 3	165 "	8 25
6.....	30 x 2	125 "	8 00
7.....	30 x 3	185 "	9 00
8.....	32 x 2½	180 "	8 75
9.....	34 x 2	160 "	8 75
10.....	34 x 3	240 "	10 50

We make special prices on School Equipments.
For lists of equipments see pages 5 to 8.

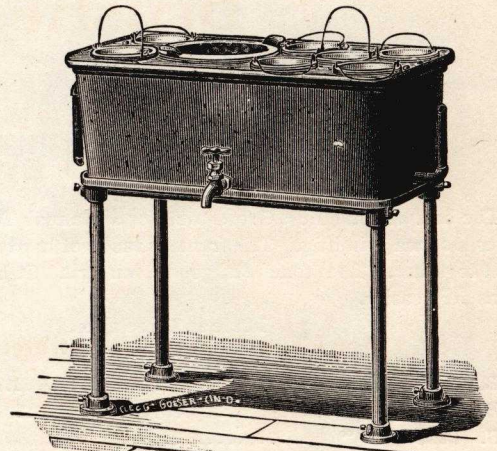
Steam Glue Heaters.



Nos. 1, 2, 3, 4.



Nos. 9 and 10.



Nos. 20, 21, 22 and 23.

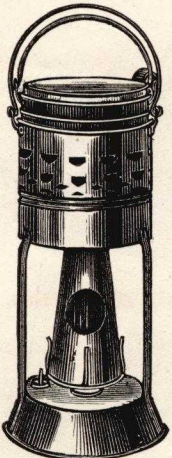
Price List.

No. 1, with 1/2-gallon pot ..	\$7 00	No. 9, with two 1/2-gallon pots.	\$9 50	No. 20, with one 2 and seven 1/4-gallon pots.....	\$22 00
No. 2, " 3/4 " " ..	7 50	" 10, " " 3/4 " " ..	10 00	No. 21, " " 1 1/2 and six 1/4 " " ..	21 00
No. 3, " 1 " " ..	8 00			No. 22, " " 2 1/2 " four 1/2 " " ..	21 00
No. 4, " 1 1/2 " " ..	8 50			No. 23, " " 4 " " 1/2 " " ..	22 00

All our Glue Heaters are fitted with pipe for steam, overflow pipe, and with brass bib cock for drawing water from tank. We can furnish any of the heaters with or without stands, as desired.

All pots larger than 3/4-gallon are galvanized. We have found this much better than enamel, as it will never chip and crack off.

The above prices are without stands. Stands from No. 1 to No. 10, Price each.....	\$1 50
Stands from No. 20 to No. 23, Price each.....	2 00



Kerosene Glue Heater.

Kerosene Glue Heaters.

The cut herewith shows a Heater constructed to burn kerosene oil. It heats quickly and does not smoke. We can also furnish these Heaters to burn gas,

PRICE LIST.

	Nos.—	0	1	2	3
Capacity in pints		1	1 1/2	2	3
Price, each.....		1 00	1 25	1 50	1 75



Glue Pots.

Porcelain Enameled Glue Pots.

	Nos.—	000	00	0	1	2	3	4	5	6
Capacity in pints.....		1/2	3/4	1	1 1/4	2	2 1/2	4	4 1/2	5
Price, each.....		32	35	38	43	53	64	78	92	\$1 10

LePage's Liquid Glue.

The LePage Glue is a prepared glue, put up in tin cans ready for use.

PRICE LIST.

	In Cans—	1/2 Pt.	1 Pt.	1 Qt.	1/2 Gal.	1 Gal.	5 Gal.
Price, per can.....		25	45	75	1 35	2 25	10 50

Cone Top Shellac Cups.

No. 1. Shellac Cups with cone top, 1 quart. Price, each.....	\$0 25
No. 2. " " " " " 2 " " ..	35



Shellac Cups.

Hide and Bone Glue.

Common Glue, per pound	\$0 18
Noodle " " " ..	20
No. 1 1/2 " " " ..	25
White " " " ..	22

We Make Special Prices on School Equipments.

Brushes and Sand Paper.

Extra Extra Chisel Flat Varnish Brushes.

Extra thick, Boiled French Bristles, Cedar Handles, Double Nails.

Size in inches.....	1	1½	2	2½	3	3½	4
Prices per doz.....	\$1.68	\$2.80	\$3.60	\$4.80	\$6.60	\$9.20	\$12.00
Price each.....	.17	.28	.36	.48	.66	.92	1.20

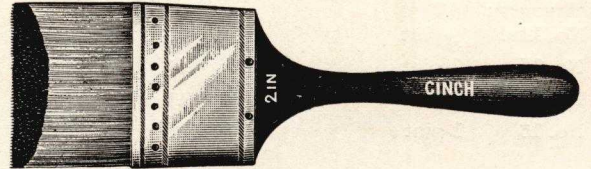


Ex.-Ex. Chisel Flat Bristle Varnish Brushes.

Black Cinch Flat Varnish Brushes.

Chisel Point, Black Chinese Bristles.

Size in inches.....	1	1½	2	2½	3
Price per doz.....	\$0.70	\$1.00	\$1.40	\$1.85	\$2.25
Price each.....	.08	.10	.15	.20	.25

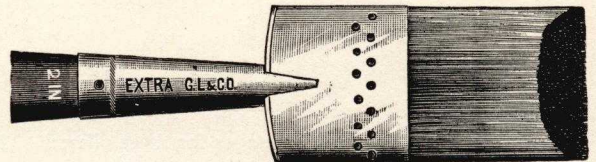


Cinch Chisel Flat Varnish Brushes.

Extra Chisel Bristle Flowing Shellac Brushes.

Tin bound French Bristles.

Size in inches.....	1	1½	2	2½	3
Price per doz.....	\$2.00	\$3.00	\$4.00	\$5.00	\$6.00
Price each.....	.20	.30	.40	.50	.60



Ex. Chisel Bristle Flowing Shellac Brushes.

Bench Brushes.

No.		Dozen.	Each.
No. 9.	Russia Bristle, long stock.....	\$7.50	\$0.75
No. 2A.	All Bristle, short stock.....	3.00	.30
No. 2.	Standard, all Bristle.....	2.50	.25
No. 436.	Horse Hair, very full, long stock.....	5.00	.50
No. 8.	Grey Mixed Stock.....	2.50	.25



Bench Brushes.

Glue Brushes with Iron Handles.

No.	000	00	0	1	2	3	4
Price per doz.....	\$1.90	\$2.30	\$2.80	\$3.60	\$4.60	\$5.15	\$6.50
Each.....	.20	.25	.30	.40	.45	.55	.65



Glue Brushes.

Flint Sand Paper.

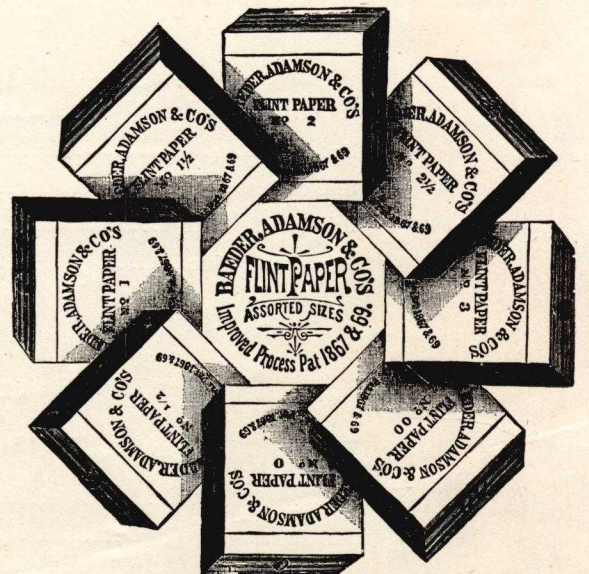
No.	Price Ream.	Price Quire.	Price Doz.
00 to 1½.....	\$2.50	\$0.15	\$0.10
2.....	2.75	.17	.12
2½.....	3.00	.17	.12
3.....	3.25	.18	.12

Emery Paper.

No.	Price Ream.	Price Quire.	Price Doz.
00 to 1½.....	\$3.50	\$0.25	\$0.15
2.....	4.00	.30	.18
2½.....	5.00	.40	.24
3.....	6.00	.45	.27

Emery Cloth.

No.	Price Ream.	Price Quire.	Price Doz.
FF to 1½.....	\$10.00	\$0.60	\$0.35
2.....	11.00	.70	.40
2½.....	13.00	.85	.50
3.....	14.00	.95	.60

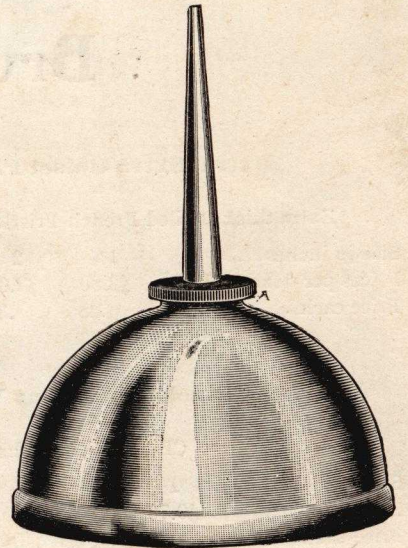


We make special prices on School Equipments. For lists of equipments see pages 5 to 8.

Steel Oilers.

These oilers are made of cold rolled steel and have a clock spring, steel spring bottom. They are heavily electro copper plated inside as well as outside, to prevent rusting and the oil from becoming gritty.

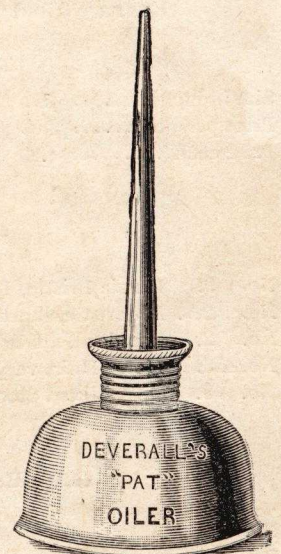
No. 12.	¼-pint	"Copperized"	Oiler, 2¼-inch diameter, 2½-inch nozzle, per doz..	\$1.80.	Each	.18
No. 13.	⅓-pint	"	" 3¾ " 3 " "	2.20.	"	.22
No. 13A.	⅓-pint	"	" 3¾ " 5 " "	2.40.	"	.24
No. 14.	⅓-pint	"	" 3¾ " 9 " "	2.60.	"	.26
No. 14A.	½-pint	"	" 3¾ " 3 " "	3.00.	"	.30
No. 14AA.	½-pint	"	" 3¾ " 5 " "	3.20.	"	.32
No. 14B.	½-pint	"	" 3¾ " 9 " "	3.40.	"	.34
No. 15.	1-pint	"	" 4½ " 3 " "	3.70.	"	.37
No. 15A.	1-pint	"	" 4½ " 5 " "	3.90.	"	.39
No. 16	1-pint	"	" 4½ " 9 " "	4.20.	"	.42



Deverall's Bench Oilers.

We claim the following advantages for these oilers: They have good heavy spout and a large opening for filling them; they also have a clean drip cup and are a convenient shape for handling. The body is drawn from one piece which gives them great strength.

PRICE LIST.			TIN.	BRASS		
No. 1.	Deverall's Oilers, 2½-inch diameter per doz....	\$1.20.	Each .15	Per doz....	\$2.20.	Each .25
No. 2.	" " 3¼-inch " "	1.60.	" .20	"	3.00.	" .30
No. 2½.	" " 3¾-inch " "	2.00.	" .25	"	3.60.	" .40
No. 3.	" " 4¼-inch " "	2.40.	" .30	"	4.00.	" .50



Paragon Oilers

With Patent Drip Cups.

No.	1	1½	2	3	4	5	6
Size of Bottom.....	2½-in.	2½-in.	3½-in.	3¼-in.	4½-in.	4½-in.	4½-in.
Price, each, Brass.....	.27	.30	.34	.40	.45	.53	.64
Price, each, Zinc.....	.15	.18	.21	.24	.27	.33	.39

Automatic Oiler.

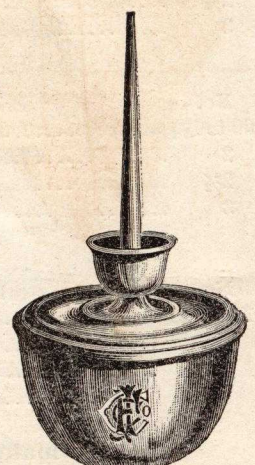
Zinc Oiler with Brass Bottom.

THIS OILER CANNOT UPSET.

No.	0	1	2	3
Size of top of body	2½-in.	2½-in.	3¼-in.	3½-in.
Price, per dozen	1.80	2.10	2.40	2.70
Price, each .....	.20	.20	.25	.30



Paragon Oilers.

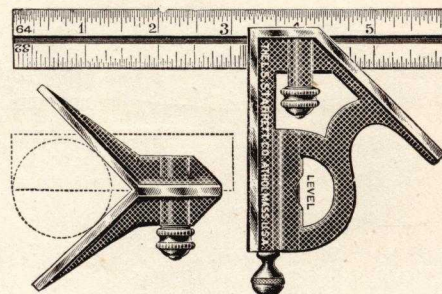


Automatic Oiler.

Starrett's Patent Combination Square No. 11.

Every tool warranted accurate. With the adjustable scale this forms one of the most convenient and useful tools ever devised for mechanics' use. One is a complete substitute for a whole set of common try squares, and is one of the best gauges made for transferring exact measurements or laying out work. It is also convenient for a depth gauge, or to square in a mortise. For a miter it is perfect, while with the auxiliary center head it forms a centering square, both inside and outside, which for convenience and accuracy has no equal.

4 inch, without center head or level.....	\$0 52
6 " " with center head.....	1 05
9 " " " ".....	1 23
12 " " " ".....	1 40
18 " " " ".....	1 93
24 " " " ".....	2 28



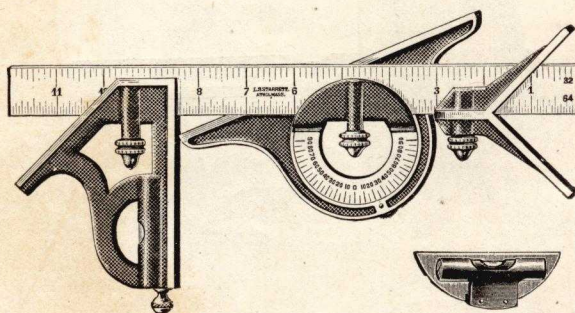
Starrett's Combination No. 9.

This cut shows Combination Square No. 11, with center head and 7-inch Bevel Protractor head. Each head may be instantly removed, or replaced and used interchangeably with the scale, thus forming the most useful combination set of tools ever devised for mechanics' use.

PRICES.

9 inch, set complete, no Level Attachment	\$2	63
12 " " " " " "	2	80
18 " " " " " "	3	33
24 " " " " " "	3	68
Level Attachment, extra.....		20

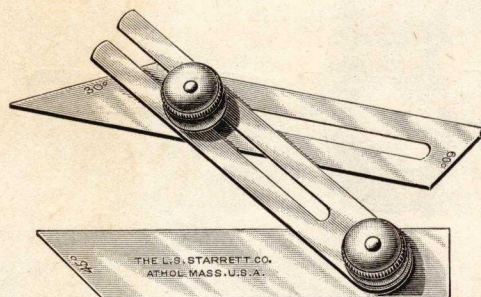
The 9 inch and 12 inch will be furnished with hardened blades at an advance of 50 cents each over above prices.



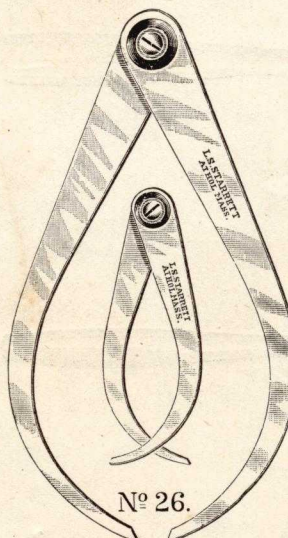
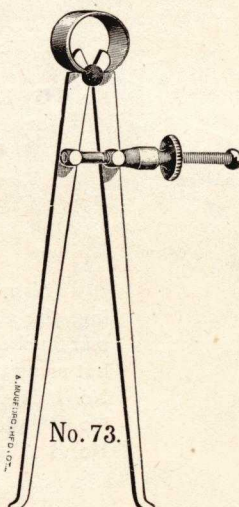
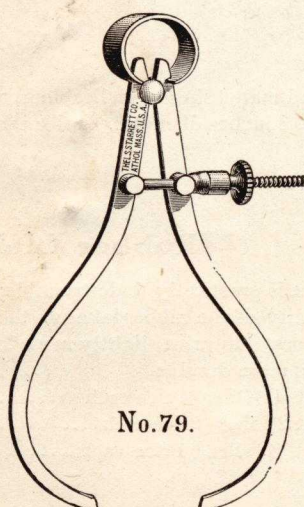
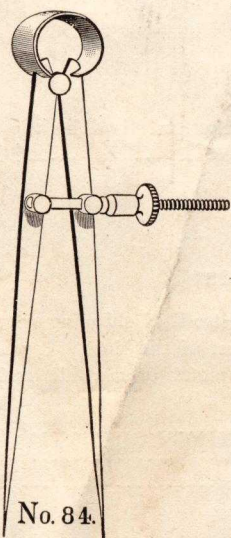
Starrett's Combination Bevel No. 49.

This Bevel, as will be seen, has a stud riveted in the straight edge stock or head, on which its split blade is hinged, so as to swing over the stock, and by the knurled nut clamped at any angle, adapting it for laying out work in a very simple manner. The slotted auxiliary blade with clamp bolt may be slipped on to the split blade and be clamped at any desired angle, and used, in combination with the stock of the other, for laying out work, measuring, or showing any angle desired, and when so combined, will lie flat upon its work. The stock is about 4 inches long.

Price.....\$1 80



Starrett's Spring Calipers and Dividers.



Nos. 84, 79 and 73. Spring Calipers and Dividers.

84, 79 and 73. Spring Calipers and Dividers.	Size (inches) —	2½	3	4	5	6	8
Price, each, Solid Nut		52	56	60	64	68	80
Price, " Spring Nut.....		72	76	80	84	88	1 00

Starrett's Firm Joint Calipers.

Nos. **26** and **27**, Firm Joint Calipers.

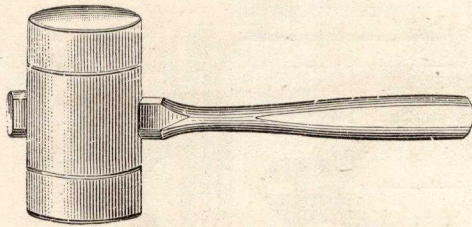
26 and 27. Firm Joint Calipers.	Size (inches) —	3	4	5	6	8	10	12	14	16	18
Price, each.....		32	40	44	52	64	72	80	1 20	1 40	1 68

Write for a Catalogue showing a complete line of Machinist Tools.

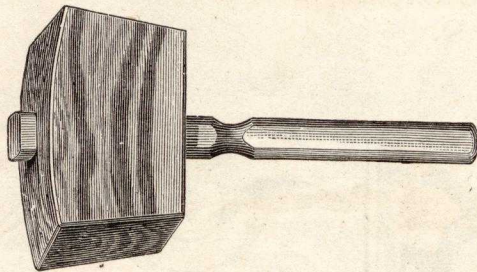
We Make Special Prices on School Equipments.

Mallets

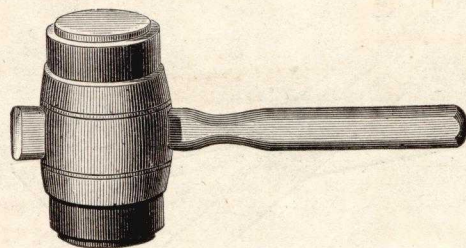
MORTISED HANDLES



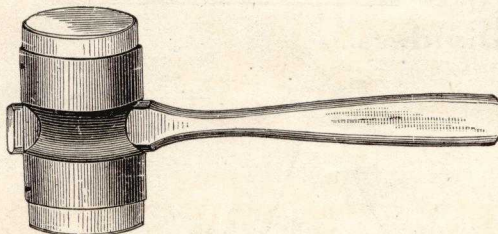
Style of Nos. 1 to 7.



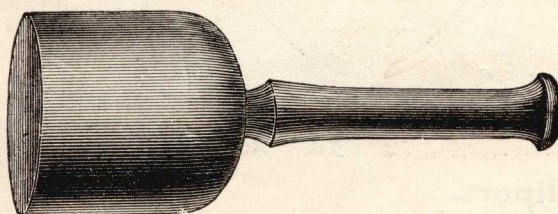
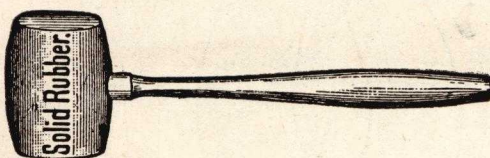
Style of Nos. 8 to 13



Nos. 14 and 14 1/4.



No. 16.



CARVERS' MALLETS

- No. 1 Round hickory, mortised, 5 inches long, 3 inches diameter. Price each\$0.13
 No. 2 Round hickory, mortised, 5 1/2 inches long, 3 1/2 inches diameter. Price each.....\$0.17
 No. 3 Round hickory, mortised, 6 inches long, 4 inches diameter. Price each.....\$0.21
 No. 5 Round lignumvitæ, mortised, 5 inches long, 3 inches diameter. Price each.....\$0.25
 No. 6 Round lignumvitæ, mortised, 5 1/2 inches long, 3 1/2 inches diameter. Price each.....\$0.34
 No. 7 Round lignumvitæ, mortised, 6 inches long, 4 inches diameter. Price each.....\$0.42

- No. 8 Square hickory, mortised, 6 inches long, 2 1/2 by 3 1/2 inches. Price each.....\$0.17
 No. 9 Square hickory, mortised, 6 1/2 inches long, 2 3/4 by 3 3/4 inches. Price each\$0.21
 No. 10 Square hickory, mortised, 7 inches long, 3 by 4 inches. Price each\$0.25
 No. 11 Square lignumvitæ, mortised, 6 inches long, 2 1/2 by 3 1/2 inches. Price each.....\$0.32
 No. 12 Square lignumvitæ, mortised, 6 1/2 inches long, 2 3/4 by 3 3/4 inches. Price each.....\$0.40
 No. 13 Square lignumvitæ, mortised, 7 inches long, 3 by 4 inches. Price each.....\$0.48

- No. 14 Round mallet, mortised, iron rings, 6 inches long, 4 inches diameter. Price each\$0.46
 No. 14 1/2 Round mallet, mortised, iron rings, 5 1/2 inches long, 3 1/2 inches diameter. Prices each.....\$0.34

- No. 16 Round mallet, heavy malleable iron socket, mortised, hickory ends, 3 inches diameter. Price each.....\$0.63

Rubber Mallets

This mallet is practically indestructible; instead of chipping or mashing, the elasticity of the rubber takes up the force of the blow. It will not mar finished work. In price slightly more than metal or rawhide mallets, but many times more durable.

- No. 1 Weight, 1 1/2 lbs. Price each\$.65
 No. 2 Weight 2 lbs. Price each..... .75
 No. 3 Weight, 3 lbs. Price each..... 1.00

Carvers' Mallets

- No. 1 2 1/4 x 4. Price each.....\$0.30
 No. 2 3 x 4 1/2. Price each.....\$0.35
 No. 3 3 1/2 x 5. Price each.....\$0.45

We Make Special Prices on School Equipments

Black Diamond Files



Slim Taper Saw File

Length, inches.....	3	3½	4	4½	5	5½	6	7	8	9	10	12
Price per dozen.....	\$0.84	\$0.84	\$0.88	\$0.92	\$1.00	\$1.16	\$1.24	\$1.52	\$1.80	\$2.16	\$2.56	\$3.80
Price each.....	.09	.09	.09	.10	.10	.12	.13	.16	.18	.22	.26	.38



Round Files

Length, inches	3	4	5	6	7	8	10	12	14	16
Diameter, inches....	⅜	⅝	⅞	¾	1¼	1½	1⅞	2⅜	2⅝	3¼
Price per dozen.....	\$1.20	\$1.20	\$1.28	\$1.40	\$1.56	\$1.72	\$2.24	\$3.00	\$4.28	\$5.88
Price each.....	.12	.12	.13	.14	.16	.18	.23	.30	.43	.59



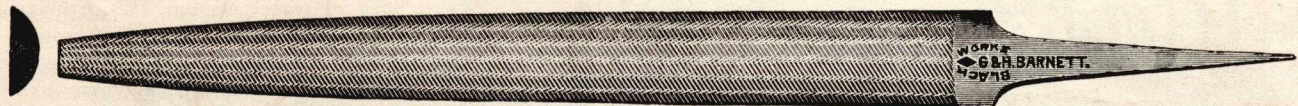
Square Files

Length, inches.....	3	4	5	6	7	8	10	12	14	16
Price per dozen.....	\$1.52	\$1.52	\$1.64	\$1.84	\$2.04	\$2.20	\$2.96	\$4.08	\$5.56	\$7.48
Price each.....	.16	.16	.17	.19	.21	.22	.30	.41	.56	.75



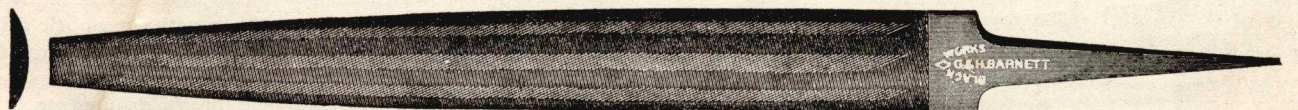
Flat Files

Length, inches.....	3	4	5	6	7	8	10	12	14	16
Flat Bastard, per dozen.	\$1.48	\$1.48	\$1.56	\$1.72	\$1.92	\$2.12	\$2.80	\$3.88	\$5.32	\$7.12
Flat Bastard, each.....	.15	.15	.16	.18	.20	.22	.28	.39	.54	.72
Flat Smooth, per dozen.	1.88	1.88	1.96	2.12	2.44	2.64	3.48	4.84	6.68	8.92
Flat Smooth, each.....	.19	.19	.20	.22	.25	.27	.35	.49	.67	.90



Half Round Files

Length, inches	3	4	5	6	7	8	10	12	14	16
Half Round, Bastard, per dozen.	\$1.92	\$1.92	\$2.16	\$2.44	\$2.80	\$3.00	\$3.64	\$4.72	\$6.20	\$8.24
Half Round, Bastard, each.....	.20	.20	.22	.25	.28	.30	.37	.48	.62	.83
Half Round, Smooth, per dozen.	2.44	2.44	2.56	2.84	3.28	3.56	4.28	5.56	7.32	9.68
Half Round, Smooth, each.....	.25	.25	.26	.29	.33	.36	.43	.56	.74	.97



Half Round Cabinet File

Length, inches.....	6	7	8	10	12	14	16
Price, per dozen.....	\$3.24	\$3.72	\$4.04	\$5.48	\$7.48	\$9.92	\$13.16
Price each.....	.33	.38	.41	.55	.75	1.00	1.32

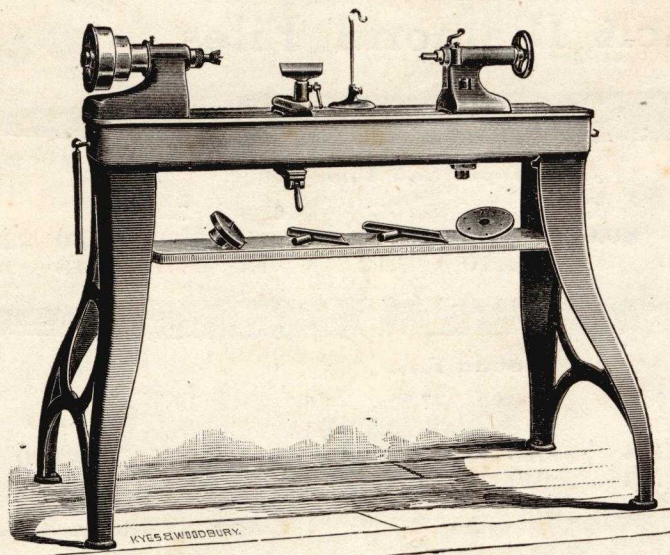


Half Round Cabinet Rasps

Length, inches.....	6	7	8	10	12	14	16
Price, per dozen.....	\$4.04	\$4.68	\$5.12	\$7.00	\$9.12	\$11.84	\$14.76
Price each.....	.40	.47	.52	.70	.92	1.19	1.48

We Make Special Prices on School Equipments

Reed's 10-Inch Swing Wood-Turning Lathe.



Reed's Wood Turning Lathe.

This cut represents a new 10-inch swing wood-turning lathe we have designed especially for use in Manual Training Schools.

Lathe is furnished with regular legs, as shown in cut, including countershaft, large and small wood-turning face plates, pair of wood-turning centers, T rest holder, and three T rests of different lengths, blue print holder, and the two shelves shown.

Or lathe can be furnished as follows, with bench legs instead of ordinary legs, shown in cut, complete with countershaft: large and small wood-

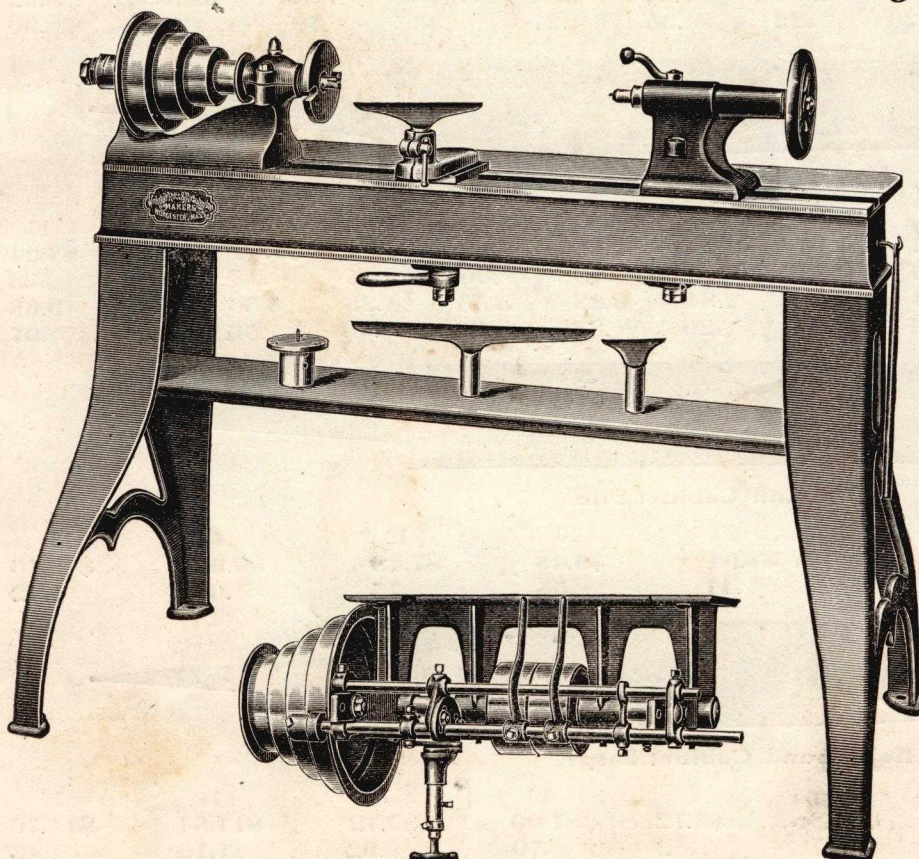
turning face plates, pair of wood-turning centers, T rest holder, and three T rests of different lengths, blue print holder, with shelf shown on back of lathe, but without the lower shelf.

This new wood-turning lathe was designed especially for manual training purposes. It possesses all the advantages of wood-turning lathes heretofore made, and has more than three times the wearing surface in the head stock than any other lathe of its size, and with good care will outwear any lathe made in the market. Its design is the result of suggestions from a large number of the foremost manual training teachers in the country, in answer to our letters of inquiry, coupled with our large experience as lathe builders.

Swing over Bed.	Length of Bed.	Distance Between Centers.	Floor Space over all.	Weight with Long Legs, lbs.	Weight with Short Legs, lbs.	Boxed Weight, Long Legs, lbs.	Boxed Weight, Short Legs, lbs.	Price Complete.
10 inches.....	3 feet.....	16 inches.....	3 ft. 4½ x 26 in.	245.....	185.....	345.....	285.....	\$55 00
10 ".....	3½ ".....	22 ".....	3 " 10½ x 26 "	255.....	195.....	355.....	295.....	57 00
10 ".....	4 ".....	28 ".....	4 " 4½ x 26 "	265.....	205.....	365.....	305.....	60 00

New Eleven-Inch Turning Lathe.

Shipping Weight, 450 lbs.

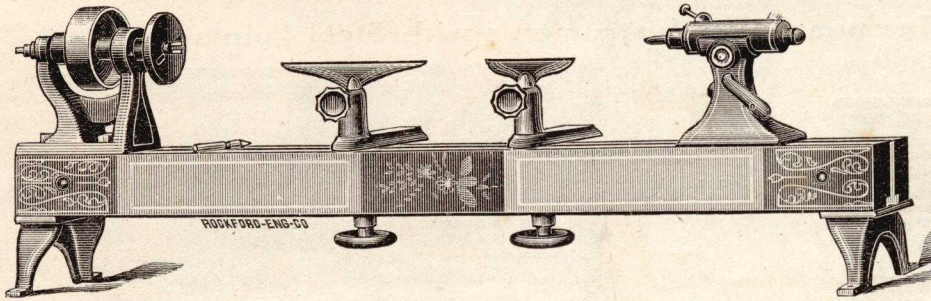


This cut represents our 11-inch Wood-Turning Lathe lately designed for manual training schools, and in the construction of this lathe we have striven to produce a Lathe possessing more good features than are embodied in any heretofore produced. The spindles are of best crucible steel, head bearings are filled with best babbitt, cone contains four steps for 1½-inch belt. The counter hanger is all in one casting with large cone (6-inch to 12-inch). **It has no Loose Pulley**, often a source of much trouble, but in its stead two separate shafts with 6-inch x 2½-inch fast pulley on one and fast pulley and cone on the other, with patent belt shifter and brake to stop quick, and many other valuable improvements. Has hole through head spindle and is equally available for iron drilling, etc. The usual length of bed is 3 feet 9 inches and takes 22 inches between centers, but can make any length ordered. We furnish with this Lathe one common face plate with slots for dog, one screw face plate, one screw center, one pair of wood centers, one pair of pointed centers, three T rests for wood turning, with two shelves as shown. Drive pulleys are 6x2½ inches, and should make about 500 revolutions per minute.

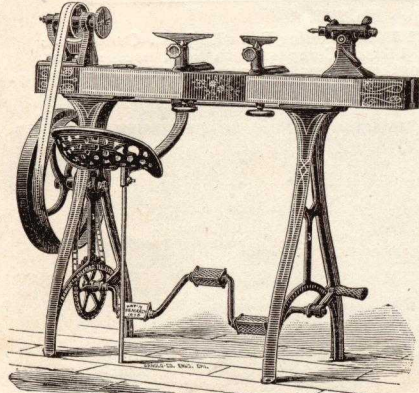
Price Complete, either 22 or 28 inches between centers\$65 00

These Lathes are used at the Armour Institute and the English High and Manual Training Schools of Chicago.

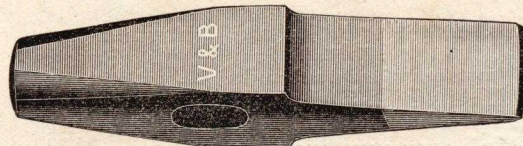
We make special prices on School Equipments. For lists of equipments see pages 5 to 8.



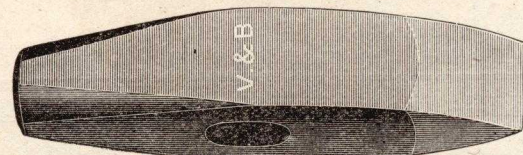
Showing No. 3 Lathe with Bench Legs.



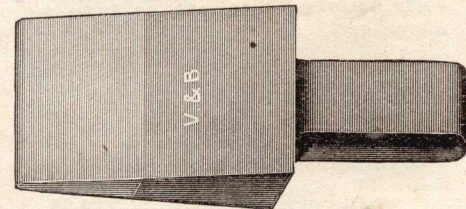
No. 3 Lathe



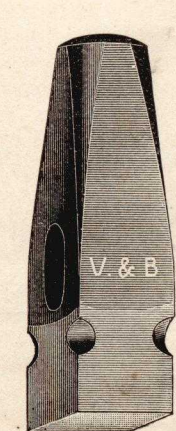
Hot Cutters



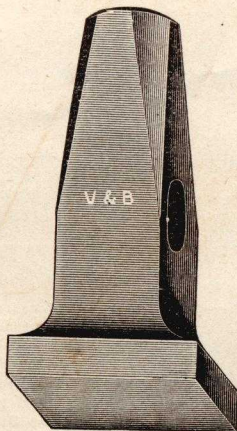
Cold Cutters



Anvil Hardies



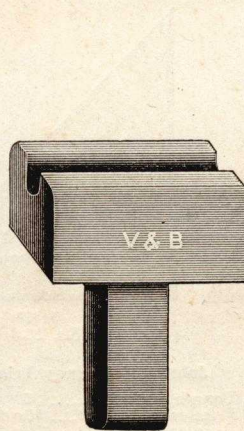
Set Hammer



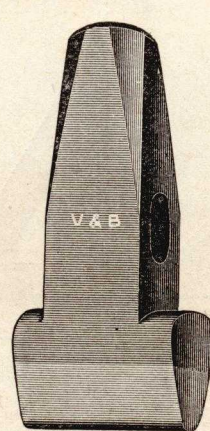
Flatter



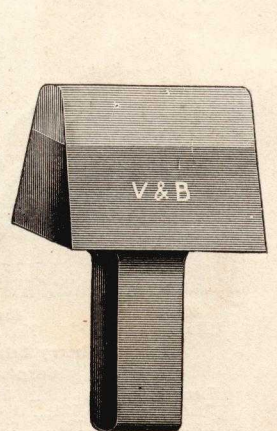
Top Swage



Bottom Swage



Top Fuller



Bottom Fuller

Write us for Prices on Forge Shop Equipments.

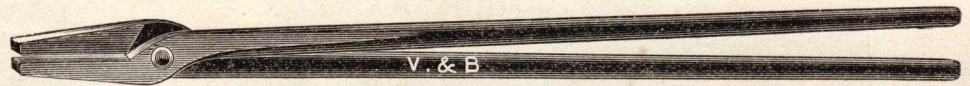
Barnes Lathe No. 3.

THIS Lathe is designed for wood turning. It will take in stuff 12 inches in diameter and 3 feet long. Having our patent velocipede foot power and improved seat, the operator sits comfortably in the best possible position for the management of his work, and can work steadily without fatigue. The speed can be varied from 1,000 to 2,000 revolutions per minute, and the motion can be started, stopped or reversed instantly at the will of the operator. Greater power can be applied on the work than with any old-style foot power, and with greater ease. The seat can be readily moved along to any part of the bed that the work requires. This Lathe is made entirely of iron and steel, except the bed, which is of wood. The spindle is of steel, fitted up in the best manner. All the bearings are of steel, making them strong, durable and light running. The centers are accurately fitted to taper holes. No wrench is required to adjust tail stock or tool rests and sockets, hand wheels being used instead.

The price of the Lathe including three centers (one a spur), two tool rests and sockets and one turned face-plate.....\$31.50

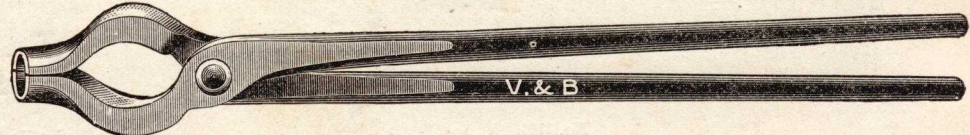
No. 3 Lathe with Bench Legs..... 18.00

TOOLS FOR FORGE SHOPS.



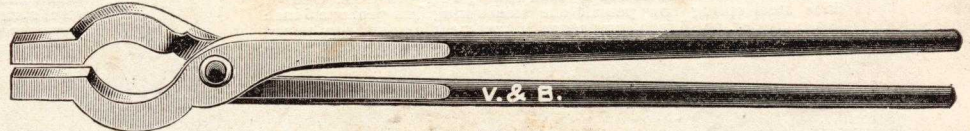
V. & B

Straight Lip Tongs



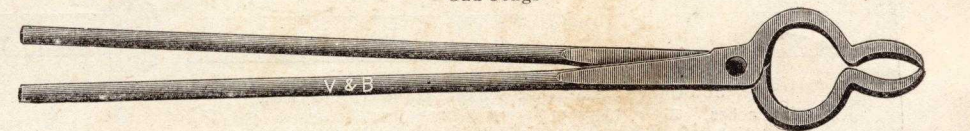
V. & B

Bolt Tongs



V. & B.

Gad Tongs



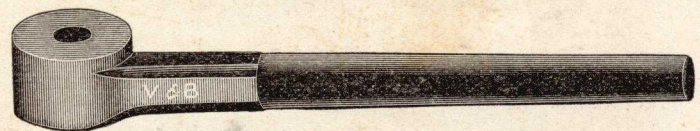
V & B

Pickup Tongs



V. & B

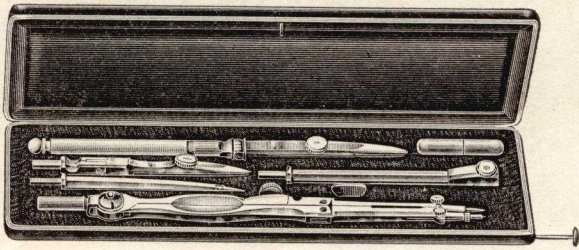
Round Hand Punches



V & B

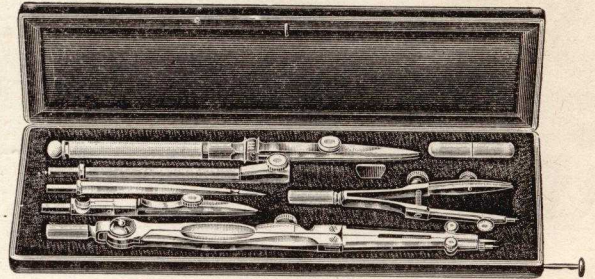
Heading Tools

Drawing Tools. German Silver Instruments with Steel Points



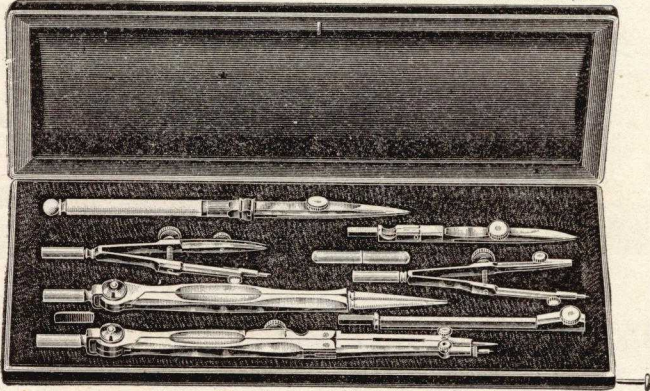
No. 1159.

Set No. 1159 contains 1 5/8 inch Ruling Pen with joint. One 6 inch Compass with fixed needle point, pen, pencil point and lengthening bar. Extra steel divider point, box with leads. Price each set \$2.40



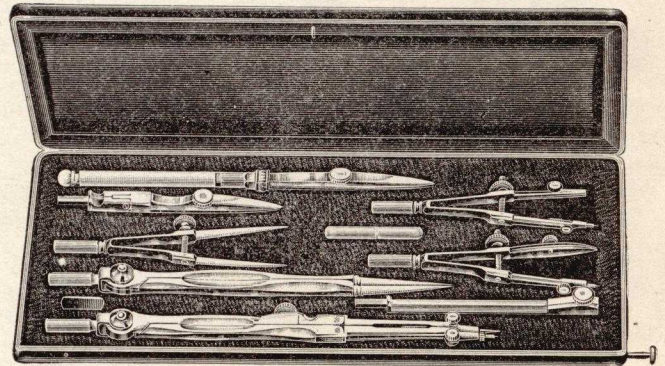
No. 1162.

Set No. 1162 contains 1 5/8 inch Ruling Pen with joint. One 3 1/4 inch metal handle Bow Pen. 1 6 inch Compass with fixed needle point, pen, pencil point and lengthening bar. Extra steel divider point, box with leads. Price per Set.....\$3.20



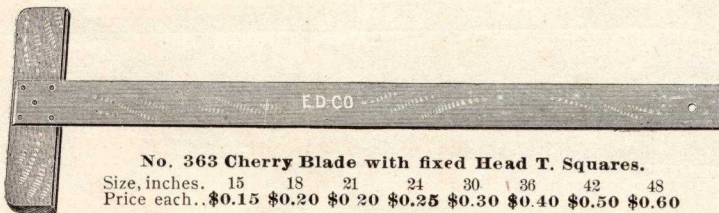
No. 1164.

Set No. 1164 contains one 5 1/2 inch Ruling Pen with joint. One 3 1/4 inch steel spring bow pencil, one steel spring bow pen, one 6 inch plain divider, one 6 inch compass with fixed needle point, pen, pencil point and lengthening bar. Box with leads. Price per Set....\$4.75



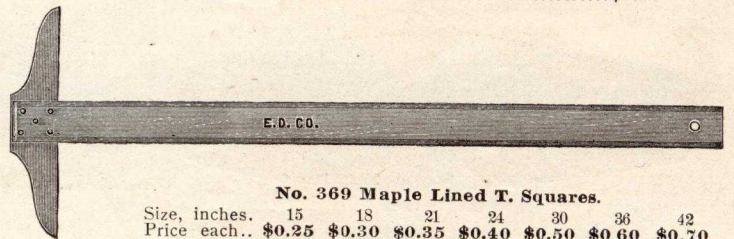
No. 1168.

Set No. 1168 contains one 5 1/2 inch Ruling Pen with joint, one steel spring metal handle bow pen, one steel spring metal handle divider, one steel spring metal handle pencil, one plain divider, 6 inch, one 6 inch compass with fixed needle point, pen, pencil point and lengthening bar. Price per Set.....\$5.20



No. 363 Cherry Blade with fixed Head T. Squares.

Size, inches. 15 18 21 24 30 36 42 48
Price each..\$0.15 \$0.20 \$0.20 \$0.25 \$0.30 \$0.40 \$0.50 \$0.60



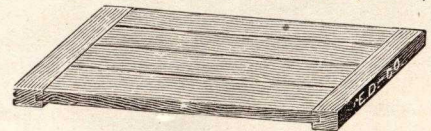
No. 369 Maple Lined T. Squares.

Size, inches. 15 18 21 24 30 36 42
Price each.. \$0.25 \$0.30 \$0.35 \$0.40 \$0.50 \$0.60 \$0.70



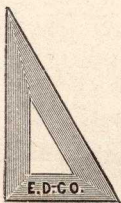
Steel Thumb Tacks

Diameter, inches..... 1/8 3/8 1/2
Price 100..... \$0.50 \$0.60 \$0.75
Price per dozen..... .10 .10 .15

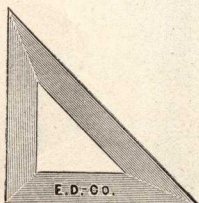


Drawing Boards.

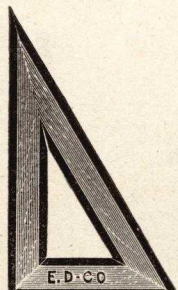
Pinewood Drawing Boards.
Size 12x17 Drawing Boards. Price each..... \$0.65
Size 16x21 " " Price each..... .90
Size 20x26 " " Price each..... 1.20
Special School Board 20x24 1/2. Price each..... .75



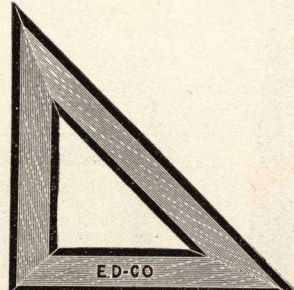
30x60°
No. 124



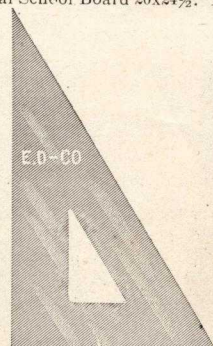
45x45°
No. 125



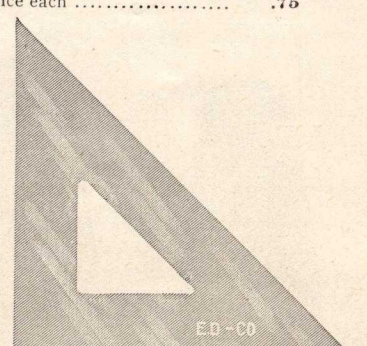
30x60°
No. 132



45x45°
No. 133



30x60°
No. 145



45x45°
No. 146

Jointed Cherry Triangles with Mortised Corner Joints.

Length, inches..... 5 6 7 8 9 10
Price each, No. 124... 15c 15c 20c 25c 25c 30c
Price each, No. 125... 15c 15c 20c 25c 25c 30c

Jointed Mahogany Triangles Ebony Lined.

Length, inches..... 5 6 7 8 9 10 12
Price each, No. 132... 25c 30c 35c 40c 50c 60c
Price each, No. 133... 30c 35c 40c 50c 60c 70c

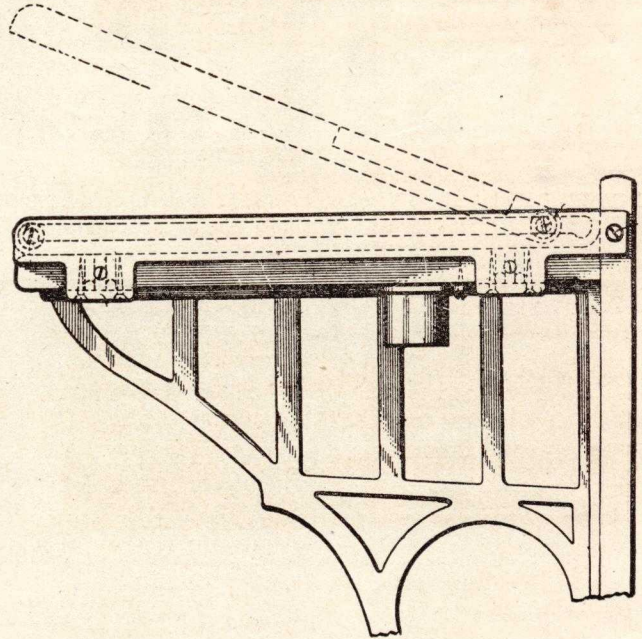
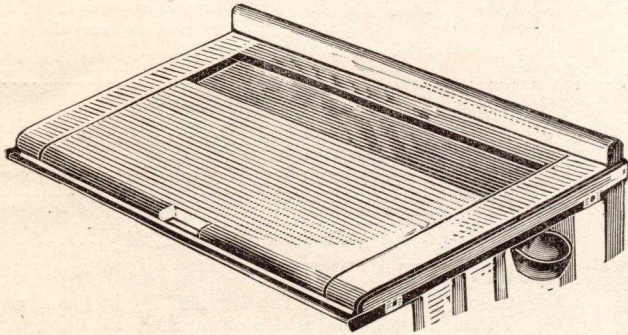
Transparent Amber Triangles.

Length, inches..... 4 6 8 10 12
Price each, No. 145... 25c 30c 45c 60c 75c
Price each, No. 146... 30c 45c 60c 80c \$1.00

We make special Prices on School Equipments. For Lists of Equipments see Pages 5 to 8

Smith's Reversible Desk Top and Whittling Tray.

Recently Patented by Robt. M. Smith,
Supervisor of Manual Training in the Chicago Public Schools.



THE accompanying cut represents a Reversible Desk Top, and which can be fitted to any ordinary school desk.

This desk top makes the problem of construction work and handicraft in the lower grades distinctly easier.

One face of desk is finished in the usual way. The other face has a sunk tray for tools, as shown in the drawing, and is covered with a strip of zinc securely fastened to it, on which to cut paper, cardboard, etc.

The free edge of the desk top is provided with a recess for the hand, by which the top is easily reversed. The opposite edge is secured by round-headed screws to the arms of "slides" which project for this purpose.

Slotted guides are fitted to each edge of the old desk top and are finished smooth and true so that the slides travel in them as noiselessly as possible.

These desk tops are being used for construction work in the lower grades of the Chicago Normal Practice School as well as several of the Chicago Public Schools.

Dr. Arnold Tompkins, Principal of the Chicago Normal School has this to say of them:—

CHICAGO NORMAL SCHOOL, June 16, 1902.

I regard the invention of the manual training desk top for the school room by R. M. Smith, Supervisor of Manual Training, Chicago, an important event in the development of manual training in the public schools. It is much more than a simple mechanical contrivance; it is a pedagogical contribution, in that it will bring about the proper fusion of manual training and the other school subjects.

Yours,

A. TOMPKINS,

Principal.

These desk tops are made to fit any desk now in use and the equipment for them comprises the following:

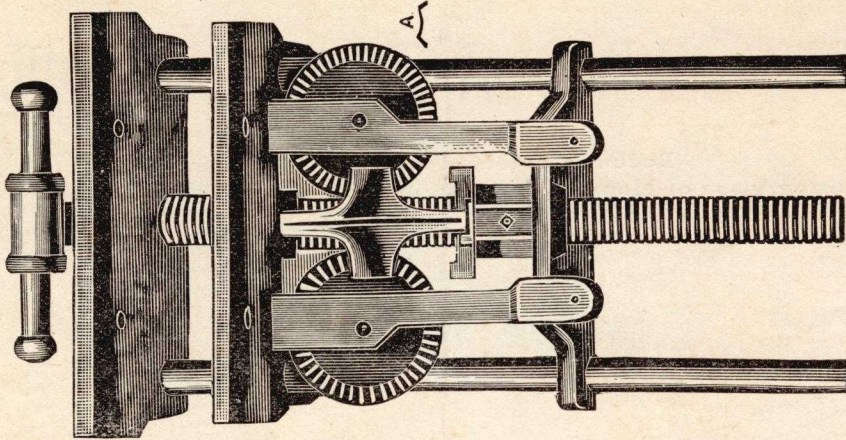
- | | |
|------------------|-------------------------------|
| 1 Knife. | 1 pair Compasses (Excelsior). |
| 1 Pair Scissors. | 1 12-inch Ruler. |
| 1 T Square. | 1 30° Triangle. |
| 1 Try Square. | 1 45° " " |

An ink well is arranged and furnished with the desk and is pivoted on the under side of the top, so that it may swing in and out of position as desired.

Price Each, without tools.....\$1 60

We make special prices on School Equipments. For lists of equipments see pages 5 to 8.

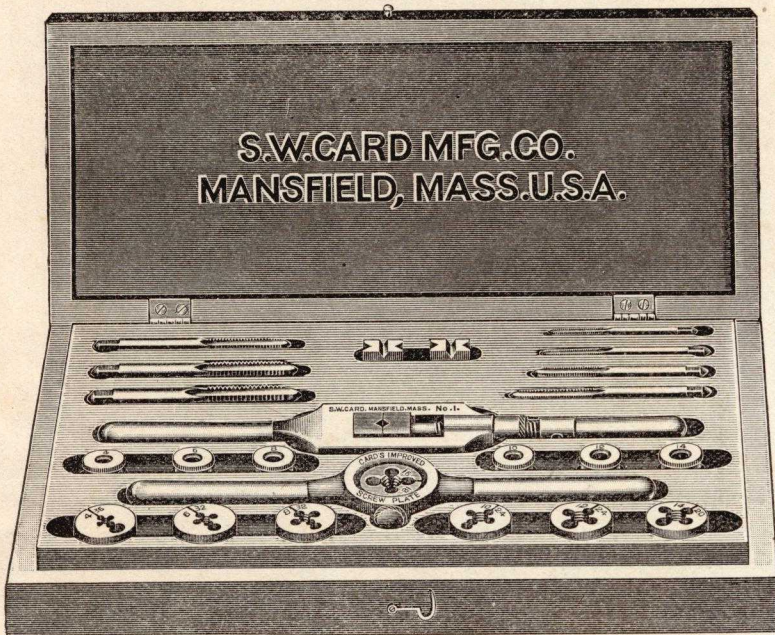
The E. R. Cook
Quick Acting
Wood Workers'
Vise.



A Quick Acting Contin-
uous Screw Vise.

The E. R. Cook Quick Acting Wood-
workers' Vise is an entirely new vise
and one of the best on the market.
This vise has no limit to its power of
compression, it will compress the en-
tire length of the opening which is
twelve inches. The screw has a
worm wheel or gear on each side of
it, giving it a direct pull. By giving
the handle one-eighth ($\frac{1}{8}$) of turn to
the left you can move the jaw in or
out, and by giving it one-eighth of a
turn to the right you can grip your
work securely at any point. It is
securely fastened to the bench by
four bolts or screws. When wanted
these vises are furnished with
wood faces.

No. 1 Cook's Rapid Acting, Vise 10 in. Jaw, 12 inch opening. Price each.....\$5 75
We have smaller sizes under way write us for prices before buying others.



Style of Sets 50 to 54.

Set No. 50.

Price Each

Stock, 7 inches long; Tap Wrench, $7\frac{1}{2}$ inches long;
5 Dies, thirteen-sixteenths of an inch in diameter...
5 Guides and 5 Taps;
cutting 4, 36; 6, 32, 8, 32; 10, 24; 12, 24.....\$4 60

Set No. 51.

Stock, 7 inches long; Tap Wrench $7\frac{1}{2}$ inches long;
7 Dies, thirteen-sixteenths of an inch in diameter,
7 Guides and 7 Taps;
cutting 4, 36; 6, 32; 8, 32; 10, 24; 12, 24, 14, 20; 16, 18 5 60

Set No. 52.

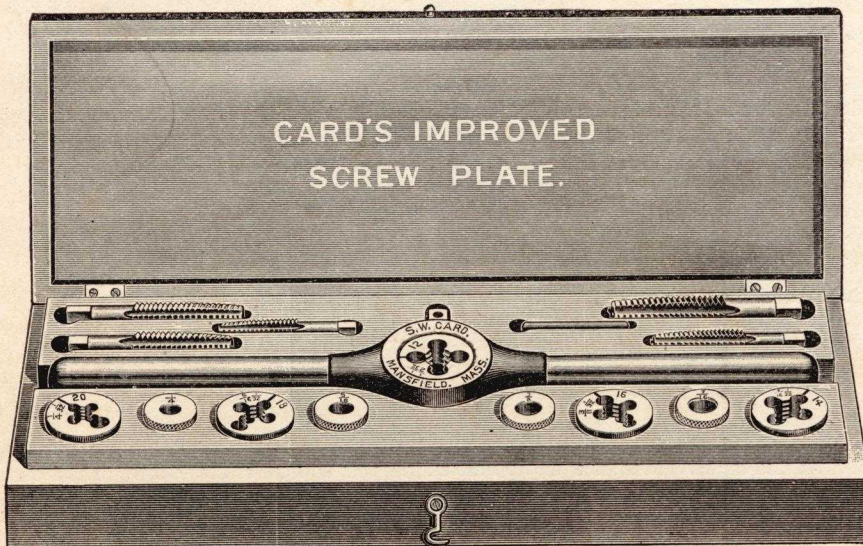
Stock, 7 inches long; Tap Wrench, $7\frac{1}{2}$ inches long
8 Dies, thirteen-sixteenths of an inch in diameter
8 Guides and 8 Taps;
cutting 4, 36; 6, 32; 8, 32; 10, 24; 12, 24; 14, 20;
16, 18; 18, 18..... 6 40

Set No. 53.

Stock, 7 inches long; Tap Wrench, $7\frac{1}{2}$ inches long,
5 Dies, thirteen-sixteenths of an inch in diameter,
5 Guides and 5 Taps;
cutting $\frac{1}{8}$, 32; $\frac{5}{32}$, 32; $\frac{3}{16}$, 24; $\frac{7}{32}$, 24; $\frac{1}{4}$, 20... 4 60

Set No. 54.

Stock, 7 inches long; Tap Wrench, $7\frac{1}{2}$ inches long;
6 Dies, thirteen-sixteenths of an inch in diameter,
6 Guides and 6 Taps;
cutting $\frac{1}{8}$, 32; $\frac{5}{32}$, 32; $\frac{3}{16}$, 24; $\frac{7}{32}$, 24; $\frac{1}{4}$, 20,
 $\frac{5}{16}$, 18..... 5 25



Style of Sets No. 70 and 80.

Set No. 70.

Stock, 14 inches long;
5 Dies, one and five-sixteenths inches in di-
ameter, 5 Guides and 5 Taps;
cutting $\frac{1}{4}$, 20; $\frac{5}{16}$, 18; $\frac{3}{8}$, 16; $\frac{7}{16}$, 14; $\frac{1}{2}$, 12 8 40

Set No. 80.

Stock, 23 inches long; 7 Dies, one and three-
quarters inches in diameter; 7 Guides and
7 Taps;
cutting $\frac{1}{4}$, 20; $\frac{5}{16}$, 18; $\frac{3}{8}$, 16; $\frac{7}{16}$, 14; $\frac{1}{2}$,
12; $\frac{5}{8}$, 11; $\frac{3}{4}$, 10..... 12 80

We also carry a complete line of Single Taps and Dies.

We make Special Prices on School Equipments, for list of equipments see pages 5 to 8.

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BUFFALO DOWN DRAFT FORGES

FOR INDUSTRIAL PLANTS AND TECHNICAL SCHOOLS.

**No
Overhead
Pipes.**

No Smoke.

No Repairs.

Send us floor plan
and size of room and
we will quote you
price on full equip-
ment. :: :: :: ::



**BY THE
Down Draft
System**

all smoke and gases
are removed as soon
as generated.

**A Cool, Clean
Smokeless**

Shop

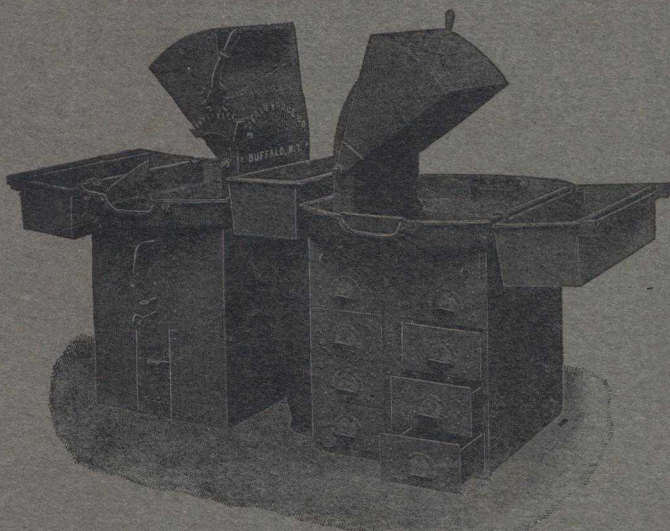
means fifty per cent
increase in output.

SHOWING DOWN DRAFT SYSTEM.

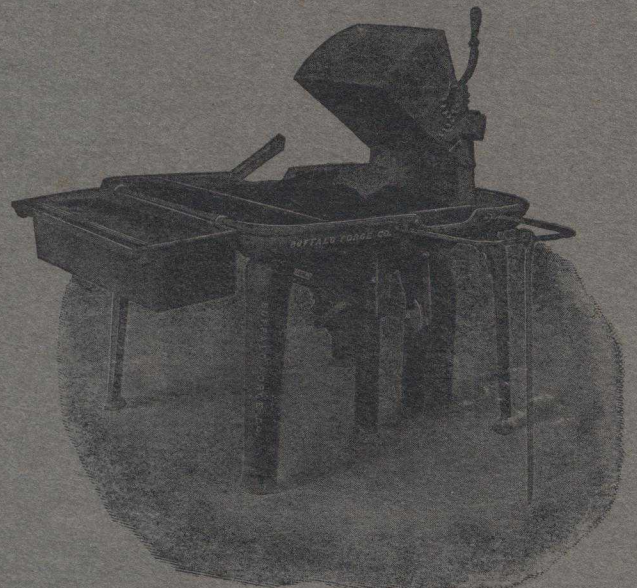
The following list gives a few of the many Manual Training Schools using **Buffalo Down Draft Forges**:

CENTRAL MANUAL TRAINING SCHOOL, Cleveland, Ohio.
MILWAUKEE SCHOOL, Milwaukee, Wis.
KANSAS CITY MANUAL TRAINING SCHOOL, Kansas City, Mo.

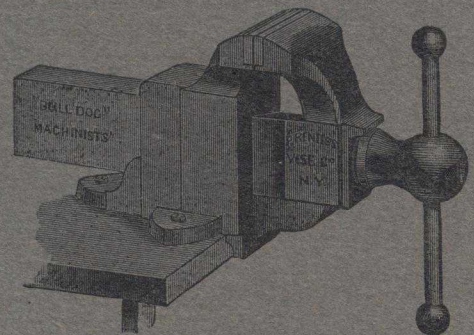
DENVER MANUAL TRAINING SCHOOL, Denver, Colo.
CLEMSON COLLEGE, Clemson, S. C.
NORTH DAKOTA AGRICULTURAL COLLEGE, Fargo, N. D.



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SINGLE FORGE.



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Headquarters for

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